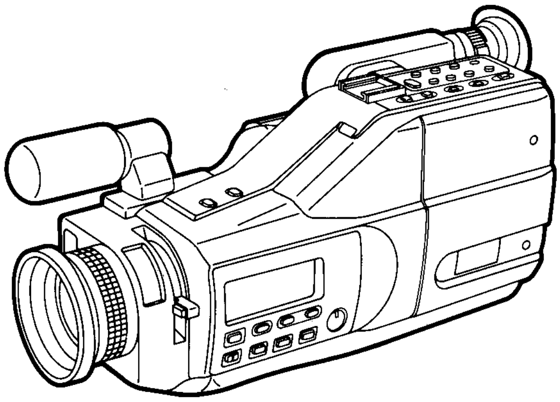
DEC, 1989

MITSUBISHI

Service Manual

VIDEO CAMERA/RECORDER



S VHS C
VHS C

MODEL
HS-C40E

Only cassettes marked S-VHS-C or VHS-C can be used with this video cassette recorder.

SPECIFICATIONS

Format	: S-VHS-C and VHS-C standard
Power source	: DC 9.6 V⎓
Power consumption	: Approx. 12 Watts
Signal system	: PAL System
Recording system	: Luminance: FM recording Color: Converted sub-carrier direct recording Conforms to S-VHS/VHS standard
Cassette	: VHS-C cassette, S-VHS-C cassette
Tape speed (SP)	: 23.39mm/sec (1-5/16 ips)
(LP)	: 11.70mm/sec (7/16 ips)
Recording time Max. (SP)	: 30 minutes (with SE-C30 cassette)
(LP)	: 60 minutes (with SE-C30 cassette)
VIDEO Output	: 1Vp-p, 75 ohms, unbalanced (via AV OUT connector)
AUDIO Output	: −6dBs, 1k-ohm (via AV OUT connector)
Microphone input	: −68dBs, high impedance, unbalanced
Pick up	: 12.7mm-format CCD
Minimum required illumination	: 9 lux
Lens	: f/1.4, f = 8.5 − 68mm, 8:1 power zoom lens with auto iris control Filter diameter 49mm
Viewfinder	: Electronic viewfinder with 17mm black/white CRT
White balance adjustment	: Full-auto/switchable INDOOR or OUTDOOR
Operating temperature	: 0°C to +40°C
Operating humidity	: 35% to 80%
Weight	: 1.6kg (with EVF)
Dimensions	: 130(W) × 145(H) × 345(D)mm

AC POWER ADAPTER DA-C40E

Power source	: AC 110 ~ 240V (50/60Hz)
Power consumption	: 30 watts
Rated output voltage	: DC 10.4V (VCR), DC 9.6V (BATT)
Rated output current	: 1.4A (VCR), 1.2A (BATT)
Charging system	: Constant current, voltage controlled
Dimensions	: 68.4(W) × 40.5(H) × 150(D)mm
Weight	: Approx. 400g (0.8 lbs)

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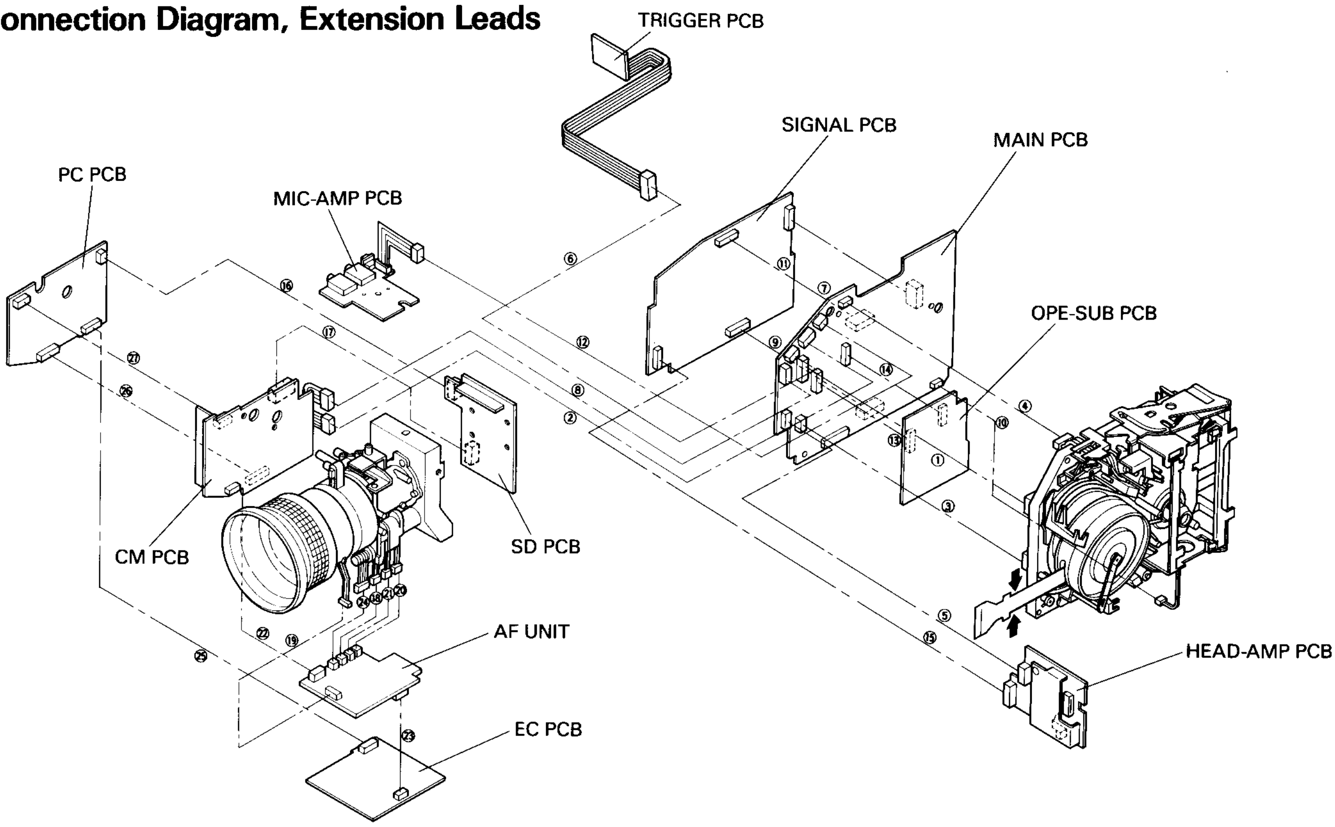
Circuit Block Diagrams

Circuit Diagrams

Connection Diagram, Extension Leads


TRIGGER PCB
SIGNAL PCB
MAIN PCB
PC PCB
MIC-AMP PCB
OPE-SUB PCB
CM PCB
SD PCB
AF UNIT
HEAD-AMP PCB
EC PCB
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
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Extension Leads No.	Mode	Connectors to be separated				Note
		Parts Name	Connector	Parts Name	Connector	
1	PCB-PCB	MAIN PCB	MA	MDA PCB	AA	20 Pin
2	PCB-LEAD	MAIN PCB	MB	CM PCB	WB	9 Pin
3	PCB-PCB	MAIN PCB	MC	MDA PCB	AC	10 Pin
4	PCB-LEAD	MAIN PCB	MD	A/C HEAD	MD	5 Pin
5	PCB-PCB	MAIN PCB	ME	HEAD-AMP PCB	HE	14 Pin
6	PCB-LEAD	MAIN PCB	MF	TRIGGER PCB	KF	7 Pin
7	PCB-PCB	MAIN PCB	MG	SIGNAL PCB	SG	20 Pin
8	PCB-LEAD	MAIN PCB	MH	CM PCB	WH	5 Pin
9	PCB-PCB	MAIN PCB	MK	SIGNAL PCB	SK	20 Pin
10	PCB-LEAD	MAIN PCB	ML	LODING MOTOR	ML	3 Pin
11	PCB-PCB	MAIN PCB	MM	SIGNAL PCB	SM	20 Pin
12	PCB-LEAD	MAIN PCB	MP	MIC-AMP PCB	BP	6 Pin
13	PCB-PCB	MAIN PCB	MY	OPE-SUB PCB	PY	22 Pin
14	PCB-PCB	MAIN PCB	MZ	OPE-SUB PCB	PZ	22 Pin
15	PCB-PCB	SIGNAL PCB	SP	HEAD-AMP PCB	HP	18 Pin
16	PCB-PCB	SD PCB	DA	PC PCB	YA	10 Pin
17	PCB-LEAD	SD PCB	DE	CM PCB	WE	12 Pin
18	PCB-LEAD	AF UNIT	GA	ZOOM RING	GA	3 Pin
19	PCB-LEAD	AF UNIT	GB	FOCUS RING	GB	5 Pin
20	PCB-LEAD	AF UNIT	GC	AF MOTOR	GC	2 Pin
21	PCB-LEAD	AF UNIT	GH	ZOOM MOTOR	GH	2 Pin
22	PCB-PCB	AF UNIT	GJ	CM PCB	WJ	14 Pin
23	PCB-PCB	AF UNIT	GM	EC PCB	EM	6 Pin
24	PCB-LEAD	AF UNIT	GN	IRIS MOTOR	GN	4 Pin
25	PCB-PCB	PC PCB	YB	EC PCB	EB	14 Pin
26	PCB-PCB	PC PCB	YC	CM PCB	WC	14 Pin
27	PCB-PCB	PC PCB	YD	CM PCB	WD	10 Pin

DISASSEMBLY

*In removing the FPC cable, be careful not to touch the exposed terminal of the connector directly as it can cause malfunction.
To remove the terminal, open the connector for FPC cable in the order shown by the arrows in Fig. 1, keep the part with exposed terminal for FPC cable connection downward, then connect in reverse order show by the arrows in Fig. 1.

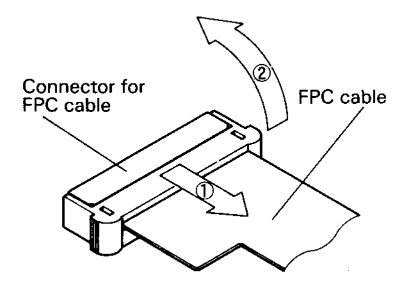


Fig. 1

1. How to Remove Electron View Finder

①Pull out the plug for view finder shown in Fig. 2.
②Turn the view finder shown in Fig. 2 to the direction shown by the arrow.
③Take off the view finder by sliding backward.

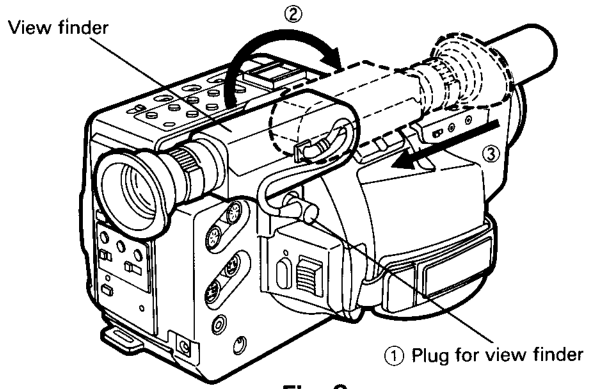
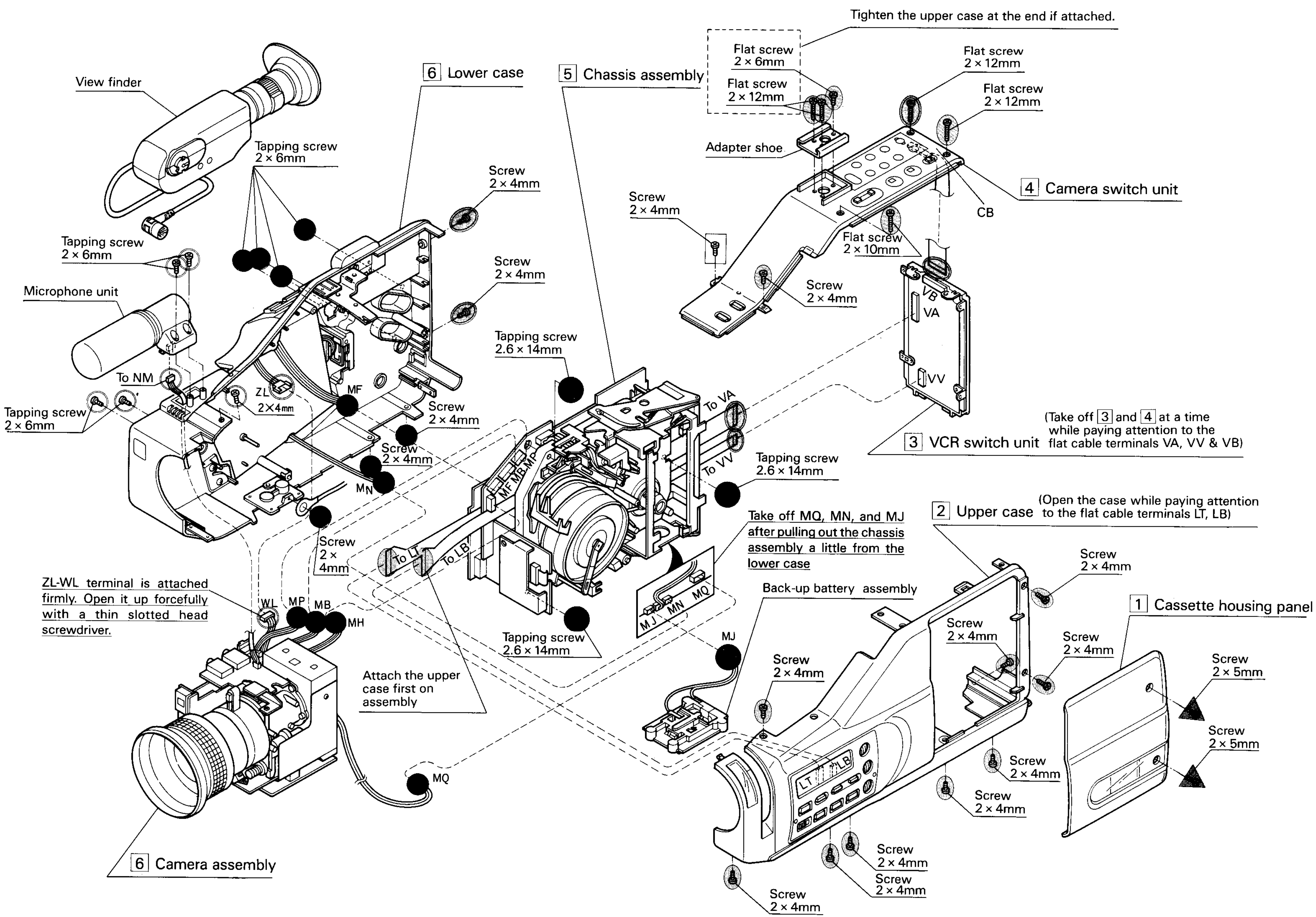


Fig. 2

Case (Outer) Disassembling Procedure

Order	1	2	3	4	5	6	No order of taking off units	
Article name	Cassette housing panel	Upper case	VCR switch unit	Camera switch unit	Chassis assembly	Lower case & Camera assembly	View finder	Microphone unit
Symbol of removed part	▲	⬯	◍	▯	●	○		
Screw and terminal to be removed	Screws-2 pcs.	Screws-15 pcs. Terminals-LT, LB	Take off 3 and 4 at a time while paying attention to the flat cable terminals VA, VV and VB. Screws-4 pcs. Terminals-VA, VV		Screws-10 pcs. Terminals-MQ, MN, MJ, MP, MB, MH, MF	Screws-5 pcs. (Including those for microphone unit) Terminals-ZL/WL, NM	Plug for view finder	Screws-2 pcs. Terminals-NM


Tighten the upper case at the end if attached.

(Take off 3 and 4 at a time while paying attention to the flat cable terminals VA, VV & VB)

(Open the case while paying attention to the flat cable terminals LT, LB)

Take off MQ, MN, and MJ after pulling out the chassis assembly a little from the lower case

ZL-WL terminal is attached firmly. Open it up forcefully with a thin slotted head screwdriver.

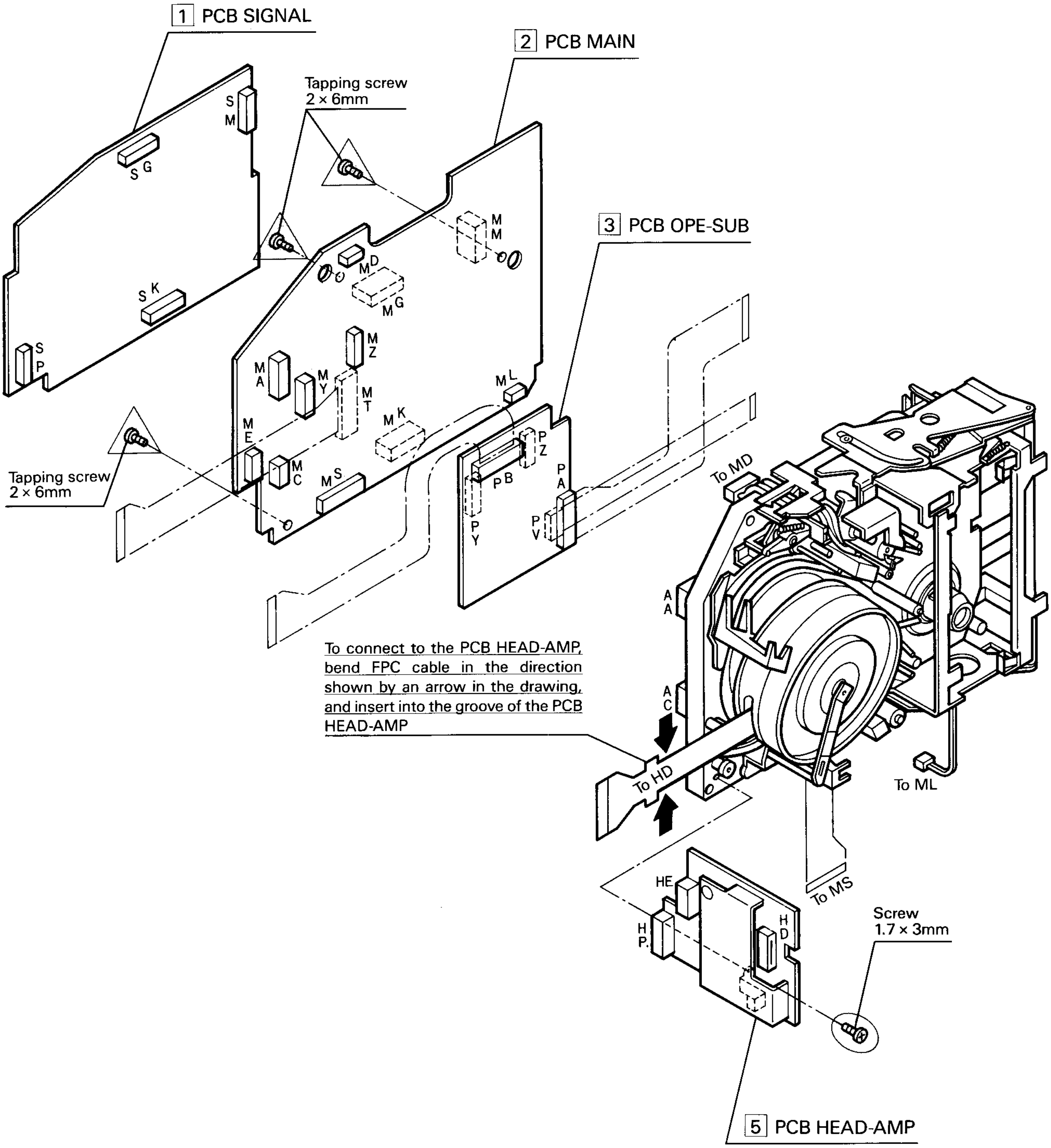
Attach the upper case first on assembly

View finder
6 Lower case
5 Chassis assembly
Flat screw 2 × 6mm
Flat screw 2 × 12mm
Flat screw 2 × 12mm
Flat screw 2 × 12mm
Adapter shoe
4 Camera switch unit
CB
Tapping screw 2 × 6mm
Screw 2 × 4mm
Screw 2 × 4mm
Flat screw 2 × 10mm
Screw 2 × 4mm
Tapping screw 2 × 6mm
Screw 2 × 4mm
Microphone unit
VB
VA
VV
Tapping screw 2.6 × 14mm
To NM
ZL
2×4mm
MF
Screw 2 × 4mm
To VA
To VV
Tapping screw 2 × 6mm
Screw 2 × 4mm
MN
3 VCR switch unit
Tapping screw 2.6 × 14mm
MF MB MP
Screw 2 × 4mm
To LT
To LB
2 Upper case
Screw 2 × 4mm
WL
MP
MB
MH
MQ
MN
MJ
Back-up battery assembly
1 Cassette housing panel
Tapping screw 2.6 × 14mm
MJ
Screw 2 × 4mm
Screw 2 × 4mm
Screw 2 × 4mm
Screw 2 × 5mm
Screw 2 × 5mm
LT
LB
Screw 2 × 4mm
Screw 2 × 4mm
MQ
Screw 2 × 4mm
Screw 2 × 4mm
6 Camera assembly
Screw 2 × 4mm

HOW TO EXECUTE CIRCUIT BOARD SERVICE

1. Chassis Assembly

Order	1	2	3	4	5
Article name	PCB SIGNAL	PCB MAIN	PCB OPE-SUB	DECK Assembly	PCB HEAD-AMP
Symbol of removed part		△			○
Screw and terminal to be removed	Terminals-SG, SK, SM, SP	Screws-3 pcs. Terminals-MA, MC, MD, ME, ML, MS	Terminals-PY, PZ		Screw-1 pc. Terminal-HD

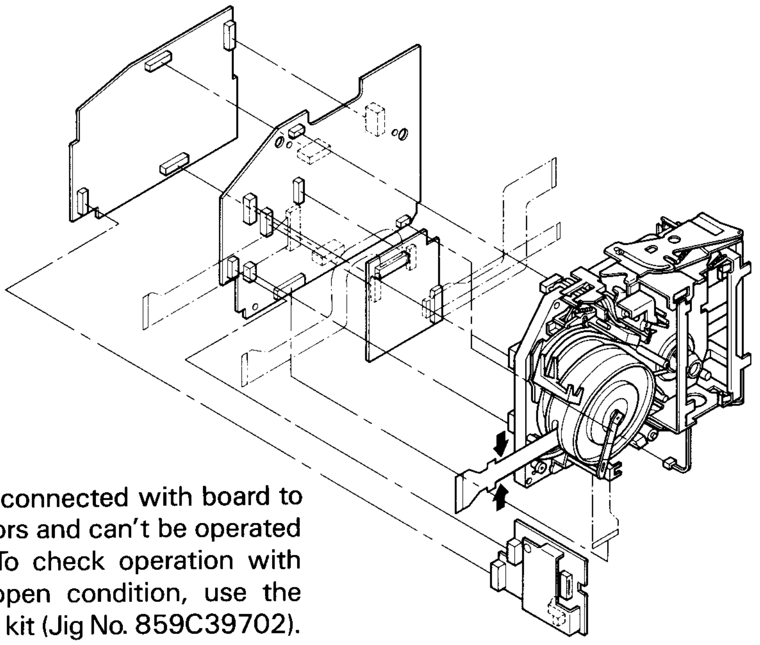

1 PCB SIGNAL
2 PCB MAIN
3 PCB OPE-SUB
5 PCB HEAD-AMP
Tapping screw 2 × 6mm
Tapping screw 2 × 6mm
Screw 1.7 × 3mm
SM
SG
SK
SP
MM
MD
MG
MZ
MA
MY
MT
ML
MK
ME
MC
MS
PZ
PB
PA
PY
PV
To MD
AA
AC
To HD
To ML
To MS
HE
HP
HD

To connect to the PCB HEAD-AMP, bend FPC cable in the direction shown by an arrow in the drawing, and insert into the groove of the PCB HEAD-AMP

Cautionary Instructions for Chassis Assembly Replacement

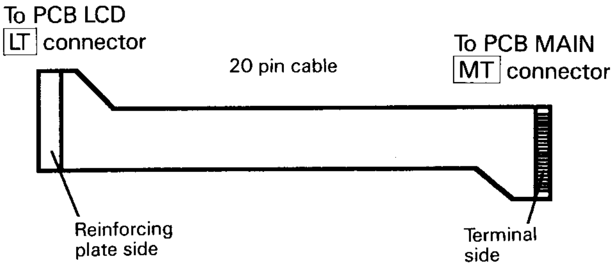
① To replace the chassis assembly disassemble the chassis assembly into individual parts according to the disassembling procedure of the casing (outer), then change the chassis.

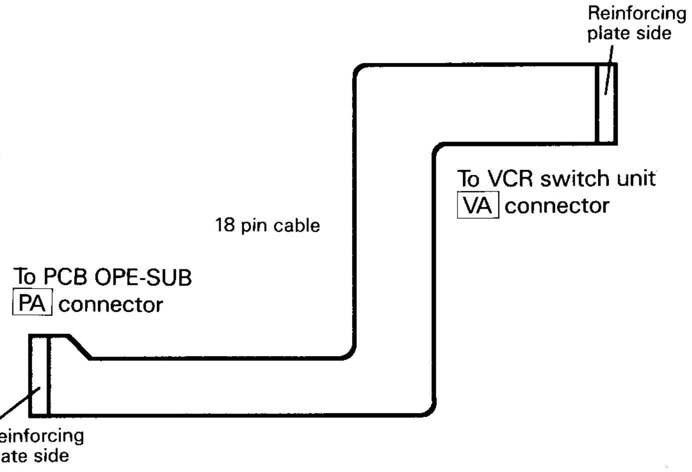
② The PCB is connected as illustrate below. At assembly, be sure to connect to the original condition.

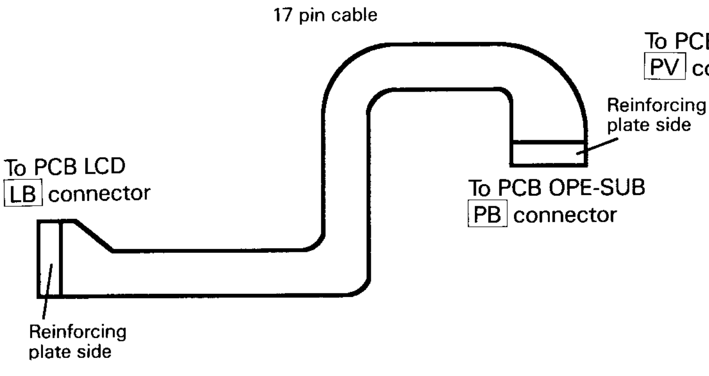


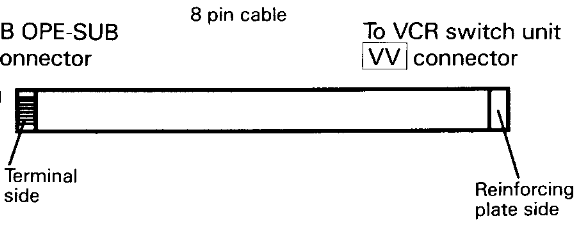
*The PCB's are connected with board to board connectors and can't be operated if kept open. To check operation with PCB's under open condition, use the extension cable kit (Jig No. 859C39702).

③ Connect the FPC cables as illustrated below. In connecting the cables, be sure not to mistake the direction.


To PCB LCD
LT connector
20 pin cable
To PCB MAIN
MT connector
Reinforcing plate side
Terminal side

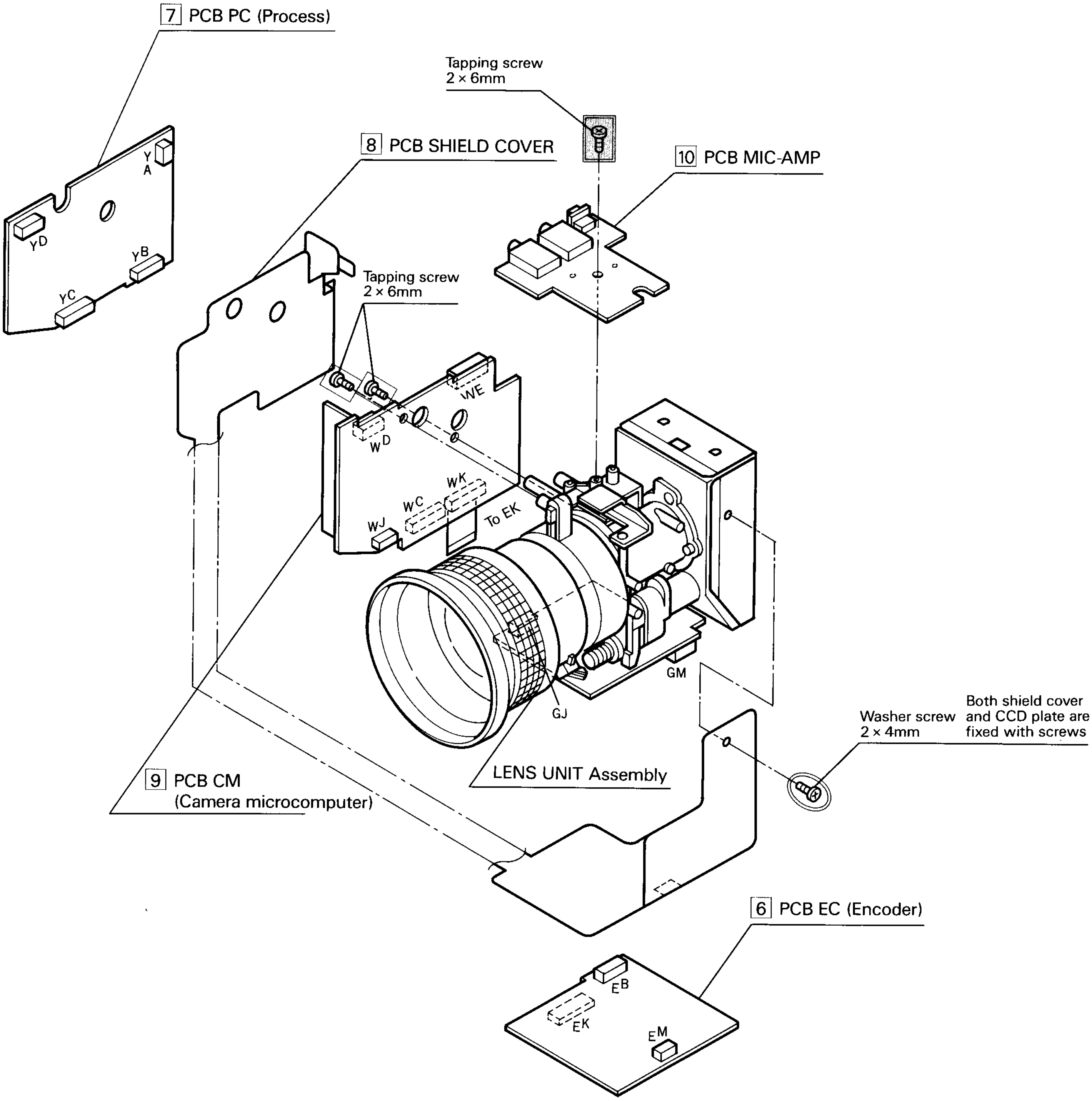

Reinforcing plate side
To VCR switch unit
VA connector
18 pin cable
To PCB OPE-SUB
PA connector
Reinforcing plate side


17 pin cable
Reinforcing plate side
To PCB LCD
LB connector
To PCB OPE-SUB
PB connector
Reinforcing plate side


8 pin cable
To PCB OPE-SUB
PV connector
To VCR switch unit
VV connector
Terminal side
Reinforcing plate side

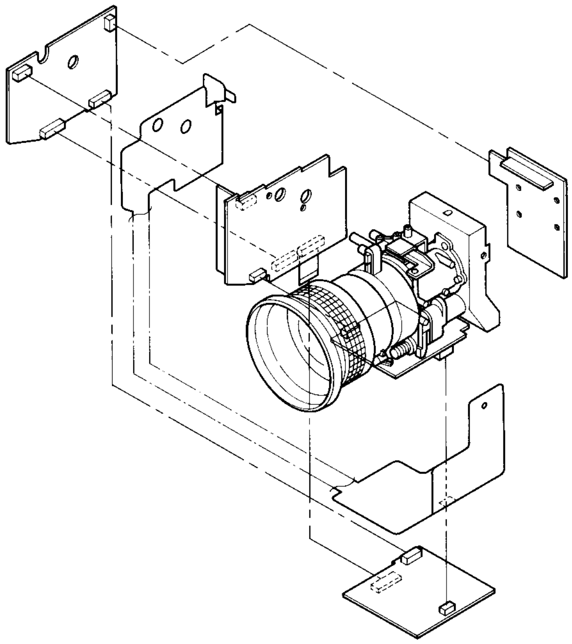
2. Camera Assembly

Order	6	7	8	9	10
Article name	PCB EC	PCB PC	PCB shield	PCB CM	PCB MIC-AMP
Symbol of removed part			○	□	▨
Screw and terminal to be removed	Terminals-EB, EK, EM	Terminals-YA, YB, YC, YD	Screw-1 pc.	Screws-2 pcs. Terminal-WJ	Screw-1 pc.


7 PCB PC (Process)
Tapping screw 2 × 6mm
8 PCB SHIELD COVER
10 PCB MIC-AMP
Tapping screw 2 × 6mm
YA
YD
YB
YC
WE
WD
WK
WC
WJ
To EK
GM
GJ
Washer screw 2 × 4mm
Both shield cover and CCD plate are fixed with screws
9 PCB CM (Camera microcomputer)
LENS UNIT Assembly
6 PCB EC (Encoder)
EB
EK
EM

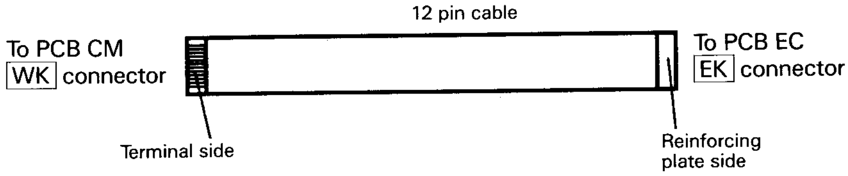
Cautionary Instructions at Camera Assembly Replacement

①When the camera assembly is replaced, disassemble the chassis assembly into individual parts according to the disassémbling procedure of the case (outer), then proceed to replacement.
②The PCB are connected as illustrated below. Be sure to connect to the original condition.



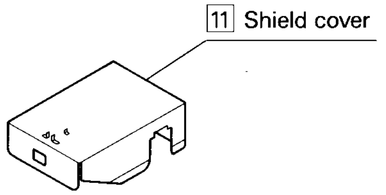
*The PCB's are connected with board to board connectors and can't be operated if kept open. To check operation with PCB's under open condition, use the extension cable kit (Jig No. 859C39702).

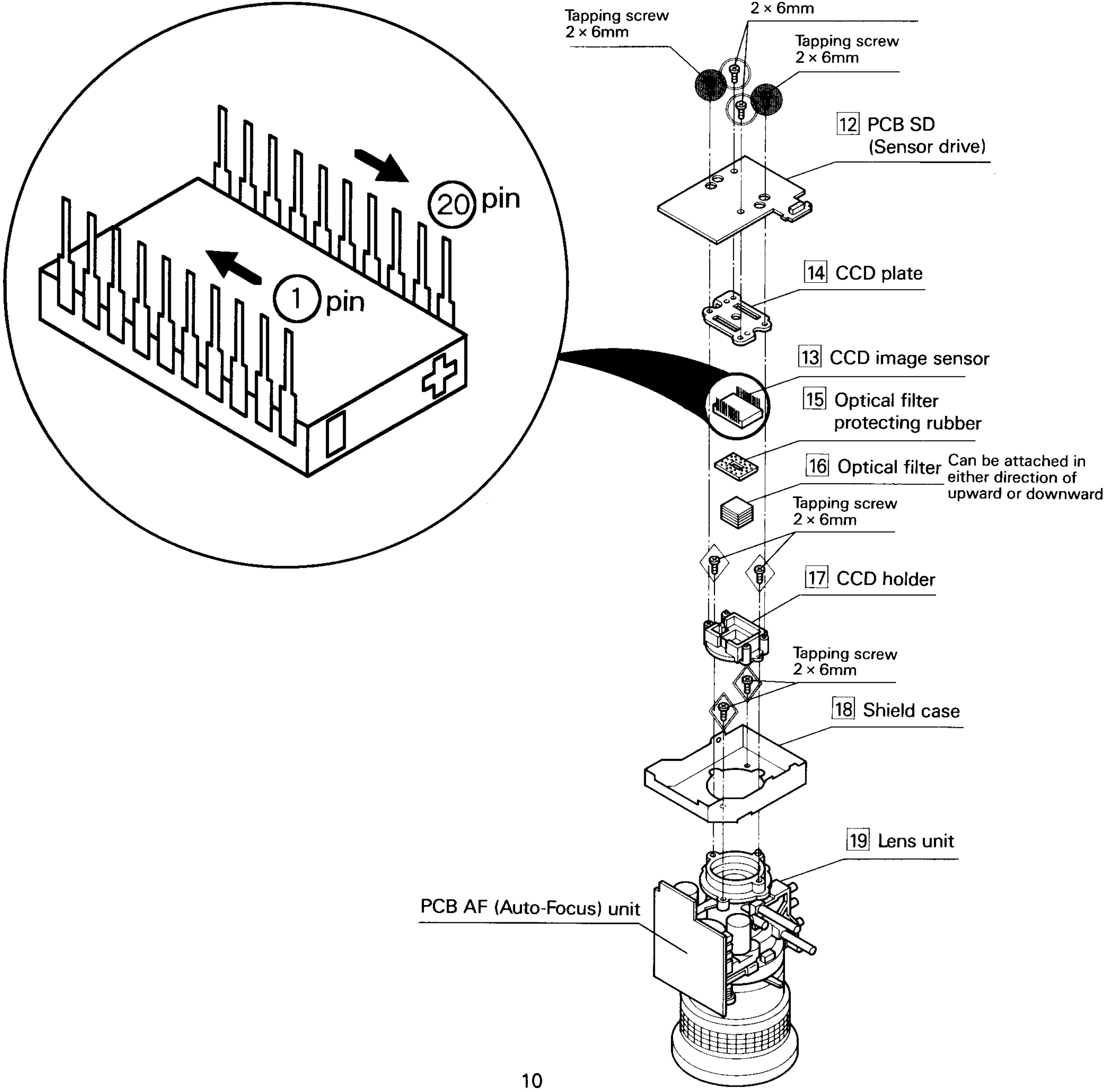
③The FPC cable is connected as illustrated below. In connecting the cable, be sure not to mistake the direction.


12 pin cable
To PCB CM
WK connector
To PCB EC
EK connector
Terminal side
Reinforcing plate side

3. Lens Unit Assembly

Order	11	12	13	14	15	16	17	18	19
Article name	Shield cover	PCB SD	CCD image sensor	CCD plate	Optical filter protecting rubber	Optical filter	CCD holder	Shield case	Lens unit
Symbol of removed part		●		○			◇	◈	
Screw and terminal to be removed		Screws-2 pcs.		Screws-2 pcs.			Screws-2 pcs.	Screws-2 pcs.	


11 Shield cover


Tapping screw
2 × 6mm
Spring washer screw
2 × 6mm
Tapping screw
2 × 6mm
12 PCB SD
(Sensor drive)
14 CCD plate
13 CCD image sensor
15 Optical filter
protecting rubber
16 Optical filter
Can be attached in either direction of upward or downward
Tapping screw
2 × 6mm
17 CCD holder
Tapping screw
2 × 6mm
18 Shield case
19 Lens unit
PCB AF (Auto-Focus) unit
⑳ pin
① pin

Cautionary Instructions for Lens Unit Replacement

*To replace the Lens unit, disassemble the unit into individual parts according to the disassembling procedure of camera assembly stated in Section 2 of Repairing, then proceed to replacement.

1. How to Replace CCD Image Sensor

Note:
- Being a C-MOS type semi-conductor, the CCD image sensor requires close attention in particular. For replacement, be sure to earth the soldering iron and others.
- Be careful not to stain or injure the transmission glass and optical filter of the CCD image sensor. Should they be stained by finger print for instance, wipe it off with silicone paper or clean shammy.
- The transmission glass of the CCD image sensor is shipped with lens protecting seal attached. Refrain from peeling off the seal to the point immediately before assembling into the lens unit at the time of replacement.
- When the CCD image sensor is soldered onto the PCB, be careful not to apply excessive heat for a long time as the filter may be discoloured by heat in some cases.

How to Remove

①Take off the PCB SD in the order shown in the table at left.

②Remove 20 terminals of the CCD image sensor solder to the PCB SD, and take off the CCD image sensor.

How to Attach

①Solder the CCD image sensor (20 soldering points) with the protecting seal onto the PCB SD. Be careful so as not to mistake direction of the PCB at this time.

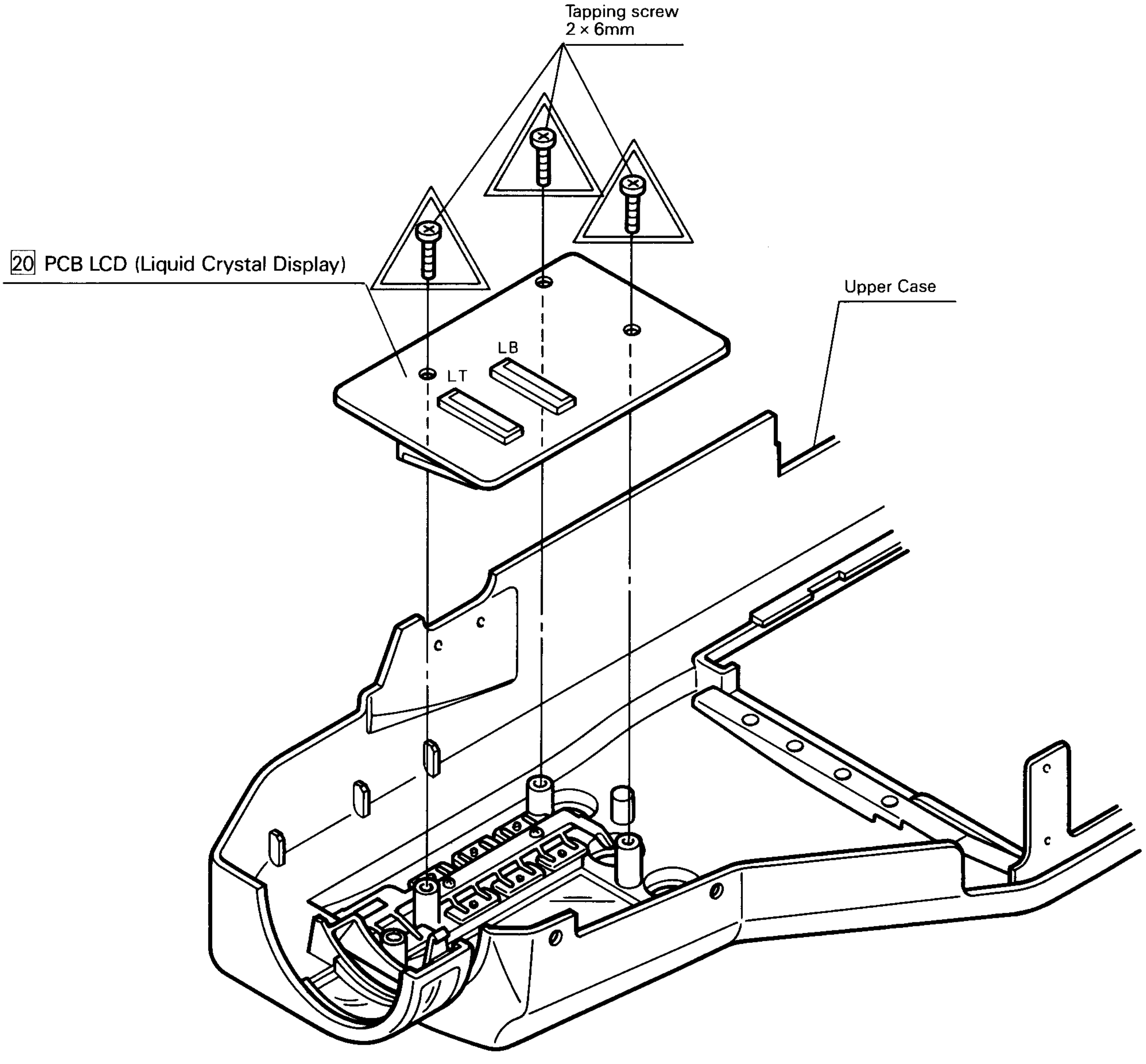
②Peel off the protecting seal and mount the PCB SD onto the Lens Unit.

4. PCB LCD Assembly

Order	20
Article name	PCB LCD
Symbol of removed part	△
Screw and terminal to be removed	Screws-3 pcs.

Cautionary Instructions for PCB LCD Replacement

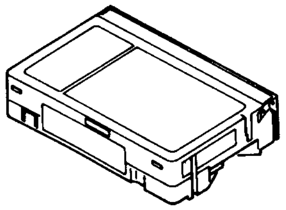
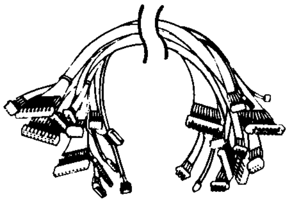
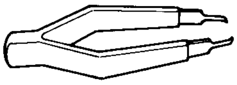
- To replace the PCB LCD, disassemble the upper case into individual parts according to the disassembling procedure of the case (outer), then proceed to disassembling.


Tapping screw
2 × 6mm
20 PCB LCD (Liquid Crystal Display)
Upper Case
LB
LT

VCR UNIT CIRCUIT ADJUSTMENT

1. Jigs and Measuring Instruments Required for Adjustment of VCR

1-1. Jigs for Adjustment

Alignment tape	Extension cable kit	Pincers for mini-connectors
	859C39702	859C39503
		

1-2. Specifications of Alignment Tape

	Video signal	Audio signal	Detail of use
PM6KE2C (859C39706)	Stair step	6kHz	• Compatibility checking and adjustment • Checking drum servo circuit • Audio head azimuth adjustment (Note) Used under short-circuit condition between test point TP5B and GND.
PC1KC (859C39707)	Colour bar	1kHz	• Adjustment of video signal playback circuit • Adjustment of audio signal playback circuit (Note) Under manual condition of digital tracking • Used at the maximum level of FM output of TP2A (P.B. FM OUT) of the PCB SIGNAL.
PC (S) (859C39708)	Colour bar		• Adjustment of playback demodulation sensitivity & playback level

1-3. Others Tools and Measuring Instruments Required

① Colour monitor (Colour TV)
② Oscilloscope
③ Colour bar generator
④ Frequency counter
⑤ Full set of general tools
⑥ Audio generator
⑦ D.C. Voltmeter
⑧ Carrier checker
⑨ Screwdriver for camera adjustment
⑩ Camera dummy connector (859C397090)

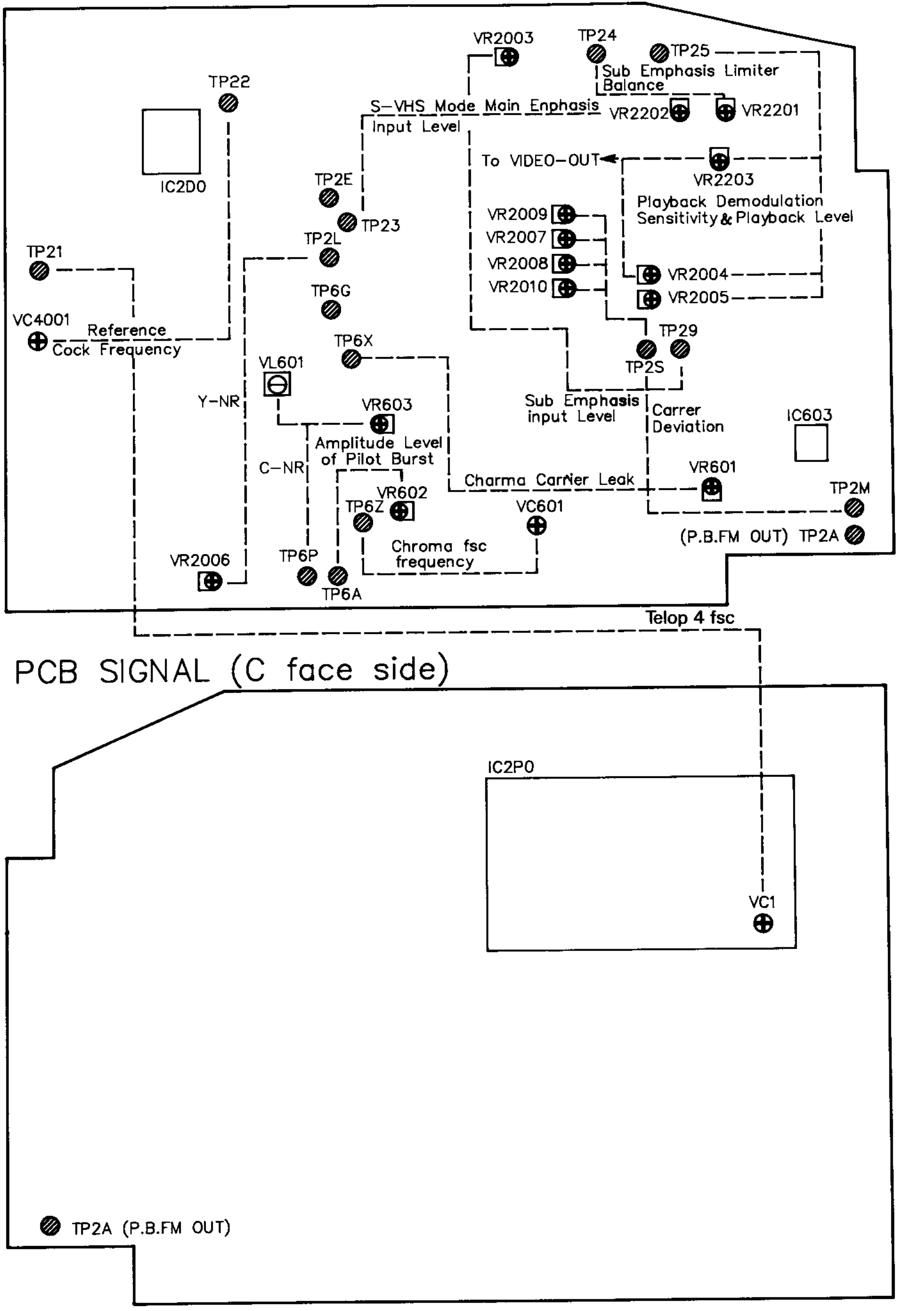
2. Prior to Adjustment

① Adjustment of VCR circuit becomes necessary, in almost all cases, at replacement of parts or the video head. Should the electrical circuit go out of order, the defective point is first found by measuring instruments, then repair and replacement are practiced before proceeding to adjustment.
Refrain from making adjustments indiscretely without detecting the point of trouble.
There are some items which require no adjustment according to trouble. In actual servicing, adjust only the items required.

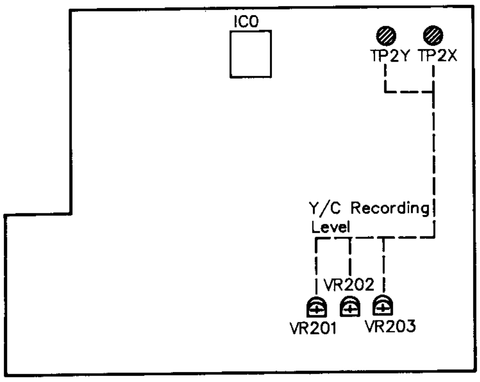
② In case of VCR section adjustment, supply RF signal into C40 from a video cassette recorder equipped with S out terminal (HS-E70/B70 etc.) via Camera Dummy Connector.

3. Location of Adjustment Points (VCR Section)

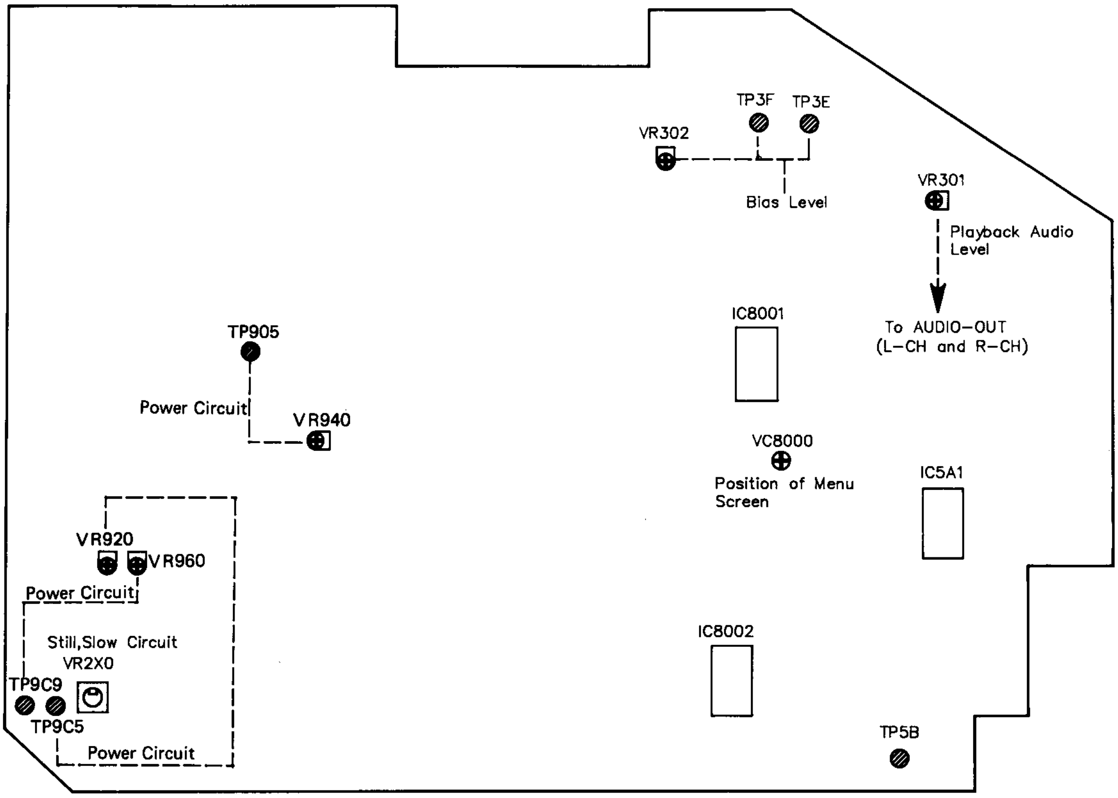
PCB SIGNAL (S fase side)


VR2003
TP24
TP25
Sub Emphasis Limiter Balance
TP22
S-VHS Mode Main Enphasis Input Level
VR2202
VR2201
IC2D0
To VIDEO-OUT
VR2203
Playback Demodulation Sensitivity & Playback Level
TP2E
TP23
TP2L
VR2009
VR2007
VR2008
VR2010
TP21
VR2004
VR2005
TP6G
VC4001
Reference Cock Frequency
TP29
TP6X
TP2S
VL601
Y-NR
VR603
Sub Emphasis input Level
Carrer Deviation
IC603
Amplitude Level of Pilot Burst
C-NR
VR601
Charma Carrier Leak
TP2M
VR602
TP6Z
VC601
(P.B.FM OUT) TP2A
Chroma fsc frequency
VR2006
TP6P
TP6A
Telop 4 fsc
PCB SIGNAL (C face side)
IC2P0
VC1
TP2A (P.B.FM OUT)

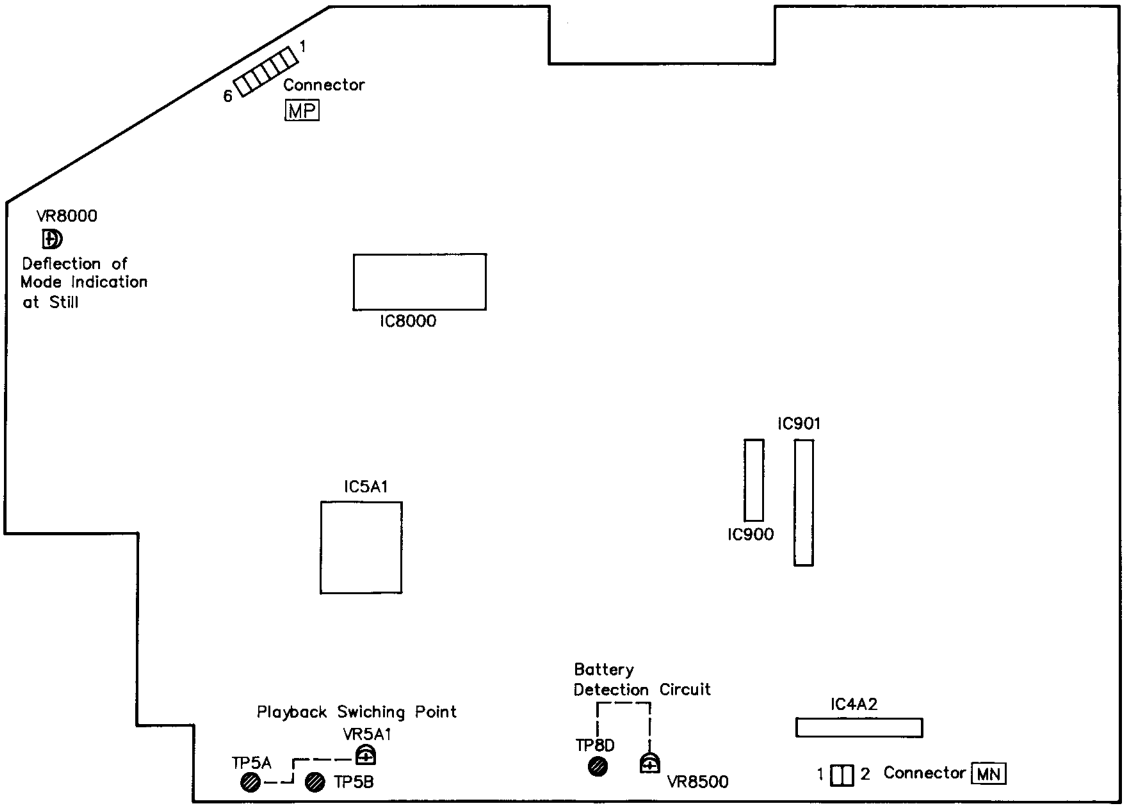
PCB HEAD AMP (S face side)

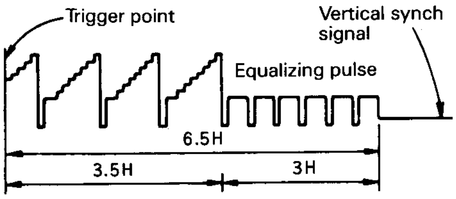

IC0
TP2Y
TP2X
Y/C Recording Level
VR202
VR201
VR203

PCB MAIN (S face side)

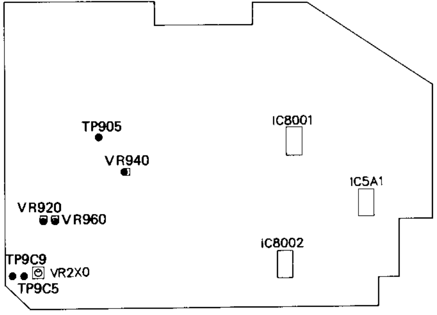

TP3F
TP3E
VR302
Bias Level
VR301
Playback Audio Level
To AUDIO-OUT (L-CH and R-CH)
IC8001
TP905
Power Circuit
VR940
VC8000
Position of Menu Screen
IC5A1
VR920
VR960
Power Circuit
Still,Slow Circuit
VR2X0
TP9C9
TP9C5
Power Circuit
IC8002
TP5B

PCB MAIN (C face side)

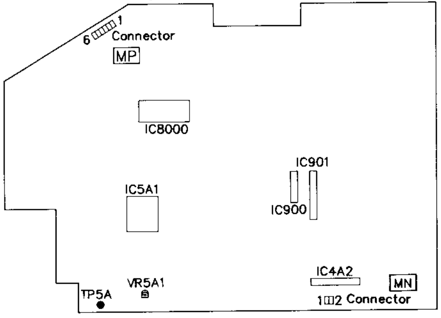

1
6
Connector
MP
VR8000
Deflection of Mode Indication at Still
IC8000
IC901
IC900
IC5A1
Battery Detection Circuit
Playback Swiching Point
VR5A1
TP5A
TP5B
TP8D
VR8500
IC4A2
1
2
Connector
MN

Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Power Circuit				
Power circuit	EE	Digital voltmeter	TP9C5 TP905 TP9C9	Adjust VR920 to 5.00±0.02V. Adjust VR940 to 5.00±0.05V. Adjust VR960 to 9.00±0.02V.
Servo Ciruit				
Playback switching point	Playback alignment tape Stair step	Oscilloscope Synchronizing slope (-) Synchronizing slope (+) DIV 0.2V TIM 50µsec.	VIDEO-OUT	External synchronizing with TP5A Adjust VR5A1 to 6.5H±1.0H. It is checked that image output is 6.5H±1.0H.  Trigger point Vertical synch signal Equalizing pulse 6.5H 3.5H 3H
Still, slow circuit	SP REC and PB mode still			Adjust VR2X0 (still adjust VR) so that the horizontal line is interlaced.
Y/C Signal Ciruit				
Chroma fsc frequency	Playback alignment tape (Colour bar)	Frequency counter	TP6Z	Adjust VC601 so that frequency becomes 13.300857MHz±90Hz.

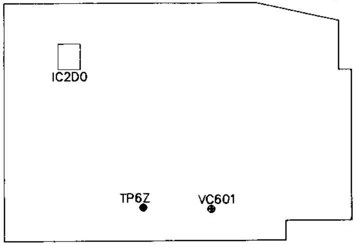
PCB MAIN (S face side)

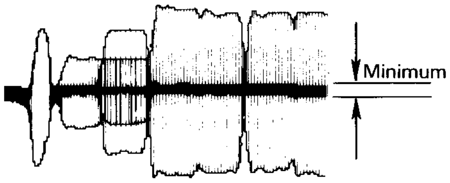
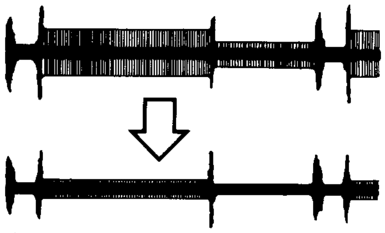
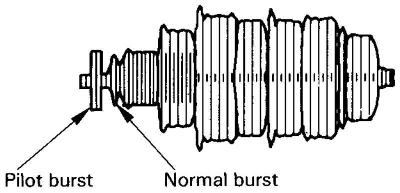
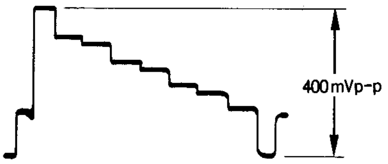

TP905
VR940
VR920
VR960
TP9C9
VR2XO
TP9C5
IC8001
IC5A1
IC8002

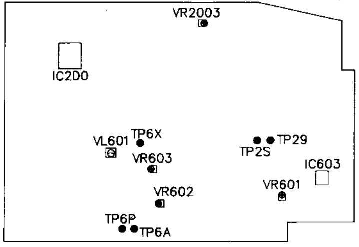
PCB MAIN (C face side)


1
6
Connector
MP
IC8000
IC901
IC5A1
IC900
IC4A2
MN
1
2 Connector
TP5A
VR5A1

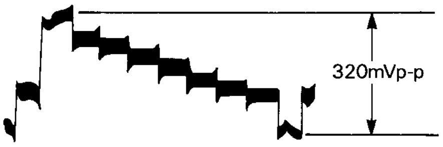
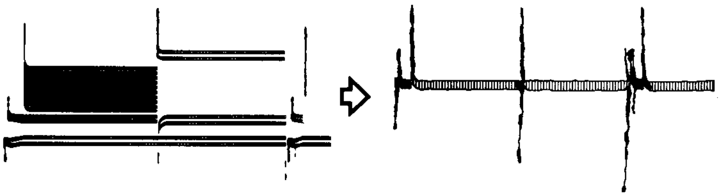
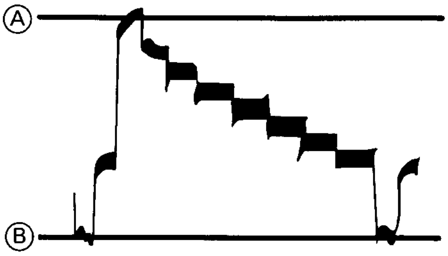
PCB SIGNAL (S fase side)


IC2D0
TP6Z
VC601

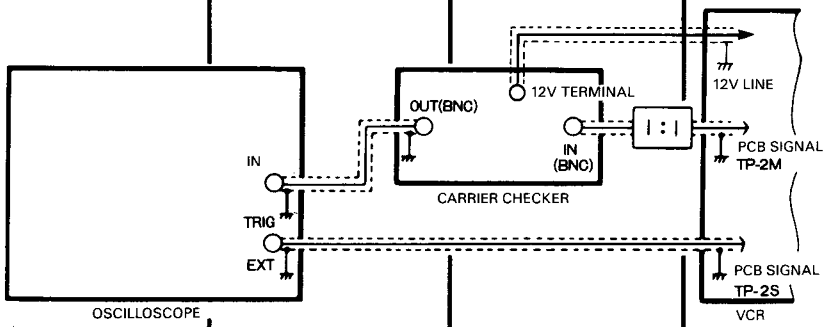
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Chroma carrier leak	Playback alignment tape (Colour bar)	Oscilloscope DIV 10mV TIM 10μsec	TP6X	Adjust VR601 to minimum carrier leak component. 
C-NR	Playback alignment tape (Colour bar)	Oscilloscope DIV 10mV TIM 2msec	TP6P	Adjust VR603 and VL601 to minimum leak signal. 
Amplitude level of pilot burst	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode	Oscilloscope * GND the probe to TP6G DIV 5mV TIM 10μsec	TP6A	External synchronizing by TP2S. After making sure that pilot burst is applied under S-VHS mode, adjust VR602 so that amplitude of pilot burst becomes 1.1 times of burst signal. 
Sub emphasis input level	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode	Oscilloscope DIV 10mV TIM 10μsec	TP29	Adjust VR2003 to 400mVp-p. 



PCB SIGNAL (S fase side)

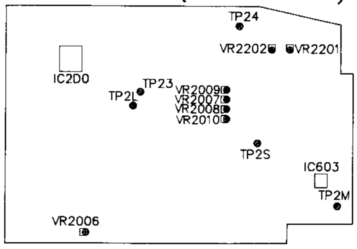
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Sub emphasis limiter balance	EE No input of VIDEO signal S-VHS mode	DC voltmeter	TP24	Adjust VR2201 to 3.48±0.03V.
S-VHS mode main emphasis input level	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode	Oscilloscope DIV 10mV TIM 10μsec	TP23	Adjust VR2202 to 320mVp-p. 
Y-NR	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR Normal VHS mode	Oscilloscope DIV 20mV TIM 2msec	TP2L	Adjust VR2006 so that video signal disappears. 
Carrier deviation	SP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode Normal VHS mode	Oscilloscope DIV 0.2V TIM 10μsec	TP2M	External synchronizing withTP2S. Connect carrier checker to TP2M. Adjust VR2009 (FM.DEV.SET) and VR2010 (FM.CAR.SET) respectively so that frequency of Sync-tip and that of peak white respectively become 5.4MHz and 7.0MHz. Adjust VR2007 (FM.DEV.SET) and VR2008 (FM.CAR.SET) alternatively so that frequency of Sync-tip and of peak white respectively become 3.8MHz and 4.8MHz. 

	S-VHS mode	VHS mode
Deviation line Ⓐ	7.0MHz	4.4MHz
Sync-tip line Ⓑ	5.4MHz	3.4MHz

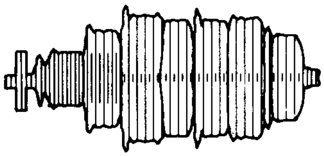
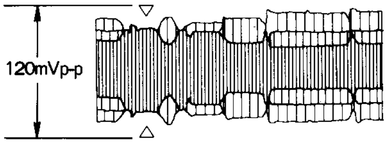
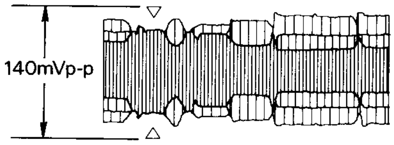


OUT(BNC)
12V TERMINAL
12V LINE
IN
IN (BNC)
1 : 1
PCB SIGNAL TP-2M
CARRIER CHECKER
TRIG
EXT
PCB SIGNAL TP-2S
OSCILLOSCOPE
VCR

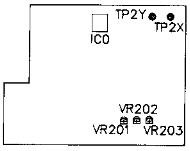
PCB SIGNAL (S fase side)

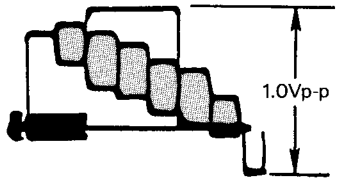
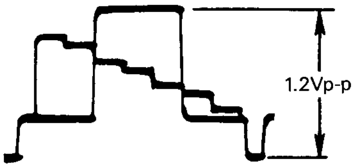
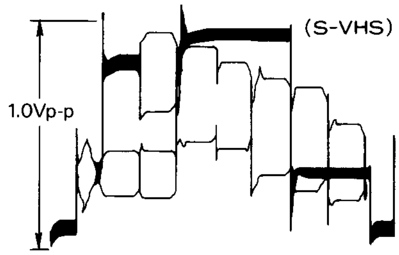


TP24
VR2202
VR2201
IC200
TP23
TP2L
VR2009
VR2007
VR2008
VR2010
TP2S
IC603
TP2M
VR2006

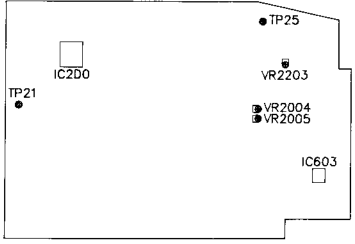
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Y/C recording level	LP REC mode Give input of Colour bar into MQ connector by using S-VHS VCR S-VHS mode	Oscilloscope * GND the oscilloscope to TP2X. DIV 10mV TIM 10µsec	TP2Y	Minimize FM recording signal by turning VR201 to the left. Adjust VR203 so that chroma recording level becomes 30mVp-p at the red part. 
		DIV 50mV TIM 10µsec		Adjust VR201 turning to the right so that FM recording signal become 120 mVp-p at the Sync-tip. 
	Normal VHS mode			Adjust VR202 so that FM recording signal becomes 140mVp-p at the SYNC TIP .  (Note) As the adjusting point, take the point where recording signal at VR201 and VR202 adjustment reach the specified level while gradually increasing from 0mVp-p.

PCB HEAD AMP (S face side)

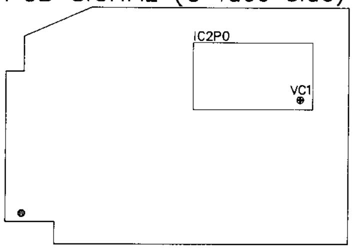


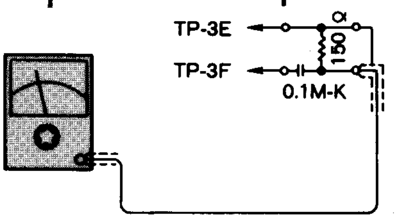
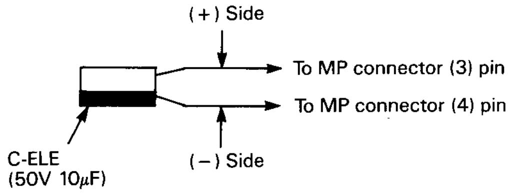
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Playback demodulation sensitivity & playback level	Playback normal VHS alignment tape (Colour bar)	Oscilloscope DIV 20mV TIM 10µsec	VIDEO-OUT terminal (75 ohm termination)	Adjust VR2004 to 1.0Vp-p. 
	Playback S-VHS alignment tape (Colour bar)		TP25	Adjust VR2005 so that demodulation signal becomes 1.2Vp-p. 
			VIDEO- OUT terminal (75 ohm termination)	Adjust VR2203 to 1.0Vp-p. 
Telop 4fsc	VIDEO signal no input	Frequency counter	TP21	Adjust VC1 on IC2P0 so that frequency becomes 17.73448MHz±100Hz.

PCB SIGNAL (S fase side)

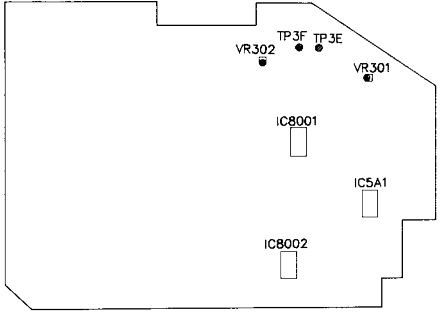


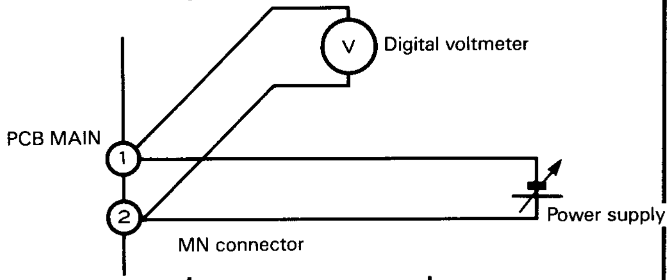
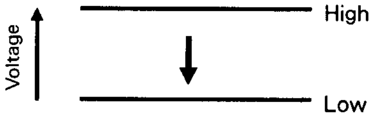
PCB SIGNAL (C face side)



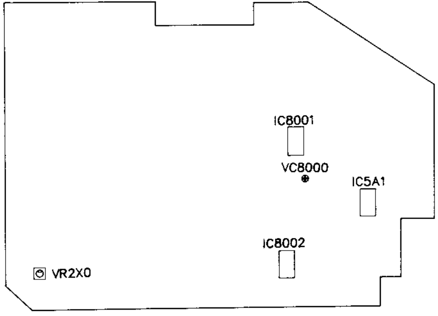
Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Normal Audio Circuit				
Playback Audio level	Playback alignment tape (Colour bar)	AC voltmeter	AUDIO-OUT terminals, (L-CH and R- CH)	Adjust VR301 so that playback level is kept at -6dBs. ((380mVr. m. s.) 0dB=0. 755Vr. m. s.) (Note) Check mechanical adjustment if deviationis over 1dB.
Bias level	SP REC mode	AC voltmeter Add probe (High pass filter)  TP-3E TP-3F 150Ω 0.1M-K  (+) Side To MP connector (3) pin To MP connector (4) pin (−) Side C-ELE (50V 10μF)	TP3E TP3F	short between (3) pin and (4) pin of MP connector on the PCB MAIN using an electrolytic capacitor (50V 10μ) and using (3) pin as positive (+) side. After making sure that indicated value on the AC voltmeter isn't affected by the monitor TV, adjust VR302 to 2. 4mVr. m. s. (Note) Be careful so that the AC voltmeter may not come in contact with VCR chassis. (Note) Refrain from turning to playback mode with the AC voltmeter connected. (Excessive input is applied to the playback amplifier.)

PCB MAIN (S face side)

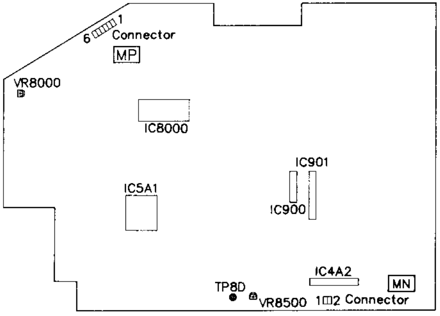

TP3F
TP3E
VR302
VR301
IC8001
IC5A1
IC8002

Name of adjustment	Mode	Measuring instrument	Test point	Adjustment method
Operation Circuit				
Position of menu screen	Menu display button: ON			While watching view finder, adjust VC8000 so that menuscreen comes to the center.
Battery detection circuit  Digital voltmeter V PCB MAIN 1 2 MN connector Power supply		Oscilloscope DIV 0.2mV TIM DC	TP8D	Connect variable constantvoltage power supply (over 3A) to MN connector on the main board. (Pin (1) at GND and pin (2) at plus side). Set the power supply at 8.8±0.05V. Turn VR8500 fully to the left end. Adjust VR8500 to the oscillation condition immediately before changing from high level to low level.  Voltage High Low (Oscilloscope indication)
Jittering of mode indication at still	SP REC and PB mode			While watching view finder, turn to still mode and perform still adjustment by VR2X0(still adjust VR). Also adjust VR8000 (VR800) to eliminate jittering of the letters.

PCB MAIN (S face side)


IC8001
VC8000
IC5A1
IC8002
VR2X0

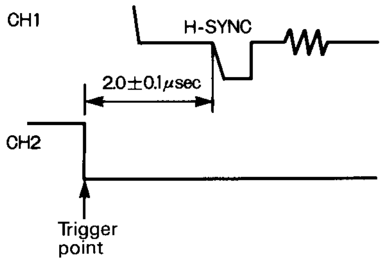
PCB MAIN (C face side)


6
1
Connector
MP
VR8000
IC8000
IC901
IC5A1
IC900
IC4A2
MN
TP8D
VR8500
1
2
Connector

<table>
<tr><th>Name of adjustment</th><th>Mode</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment method</th></tr>
<tr><td colspan="5">

Title (Superimpose)

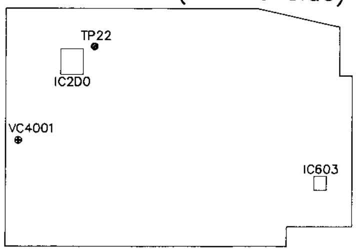
* Proceed to this adjustment after checking circuits of the signal system.

</td></tr>
<tr><td>Reference clock frequency</td><td>EE
telop indication</td><td>Oscilloscope
Video signal generator or Y/C separator</td><td>CH1:VIDEO-OUT
CH2:TP22</td><td>External synchronizing with TP22
Mount camera ass'y onto chassis ass'y.
Adjust VC4001 so that waveform of CH1 and CH2 are adjusted to 2.0±0.1μsec.


CH1
H-SYNC
2.0±0.1μsec
CH2
Trigger point

</td></tr>
</table>

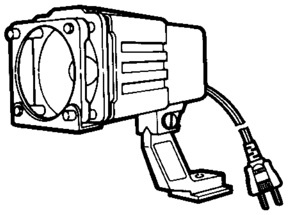
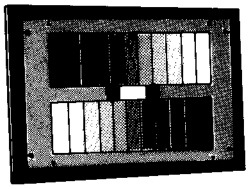
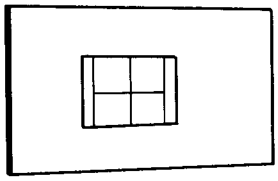
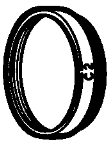
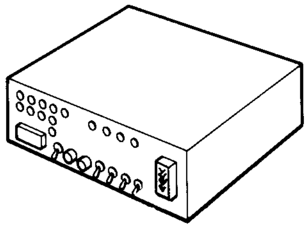
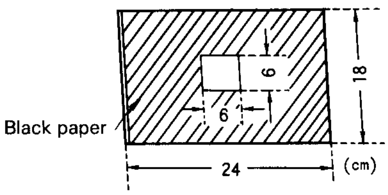
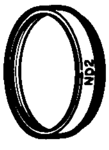
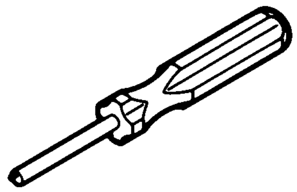
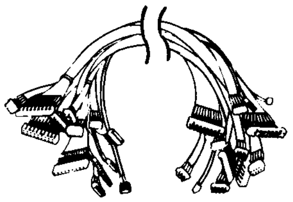
PCB SIGNAL (S fase side)


TP22
IC2D0
VC4001
IC603

CAMERA UNIT CIRCUIT ADJUSTMENT

1. Jigs and Measuring Instruments Required for Camera Unit Adjustment

1-1. Jigs for Adjustment

Halogen light (3000± 50°K)	Grey scale chart (GS-2A) 859C36101 ○Reflection type	Colour chart 859C39704 ○ Reflection type
		
Colour temperature conversion filter (49mm)	Y/C MIX adapter 859C39705	Window chart (Please prepare)
 C2..... 859C36108 C8..... 859C36200 (2 sheets are required) C12 ... 859C36107		 Make a hole of 6 × 6 (cm) at the center of corrugated cardboard, and attach a sheet of black paper of low reflection to the whole surface.
Dark conversion filter (49mm)	Back focus adjustment screwdriver (u) 859C39700	Extension cable kit 859C39702
 ND2 .. 859C36204		

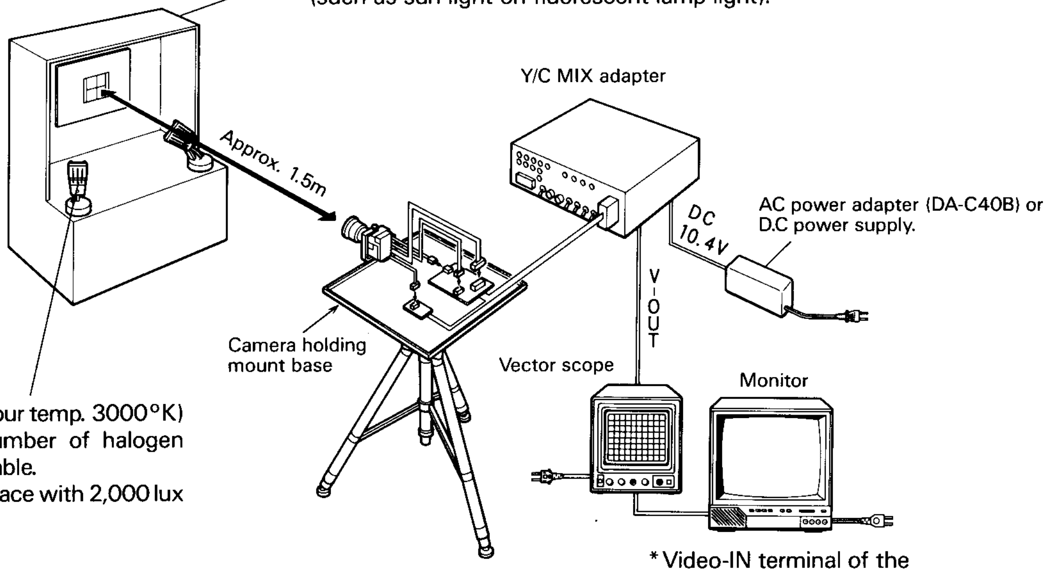
1-2. Other Measuring Instruments Required

○ Oscilloscope
○ Vector scope
○ Colour monitor (Colour TV)
○ Illuminance meter
○ Digital voltmeter

2. Standard Connection of Camera Unit at Adjustment

2-1. When Y/C MIX Adapter is Used

Prepare a box in a manner that the chart isn't exposed to any other light than from halogen lamp (such as sun light on fluorescent lamp light).


Y/C MIX adapter
Approx. 1.5m
DC 10.4V
AC power adapter (DA-C40B) or D.C power supply.
V-OUT
Camera holding mount base
Vector scope
Monitor

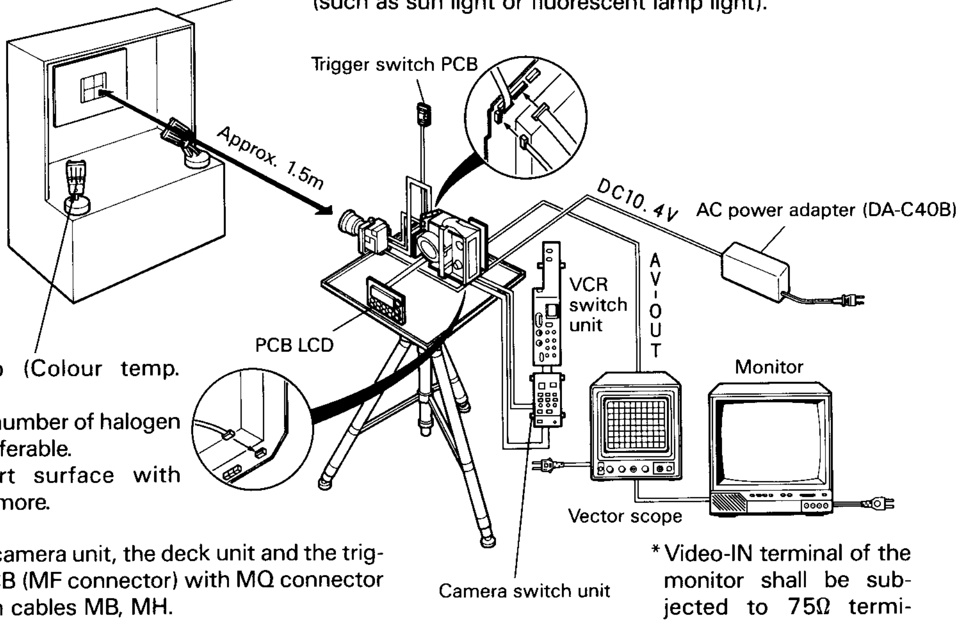
Halogen lamp (Colour temp. 3000°K)
*Two or more number of halogen lamps are preferable.
Radiate chart surface with 2,000 lux or more.

* Separate the camera unit from the deck unit, and connect MB, MH, WL and MQ connectors to the Y/C MIX adapter.

*Video-IN terminal of the monitor shall be subjected to 75Ω termination.

2-2. When No Y/C MIX Adapter is Used

Prepare a box in a manner that the chart isn't exposed to any other light than from halogen lamp (such as sun light or fluorescent lamp light).


Trigger switch PCB
Approx. 1.5m
DC10.4V
AC power adapter (DA-C40B)
VCR switch unit
AV-OUT
PCB LCD
Monitor
Vector scope
Camera switch unit

Halogen lamp (Colour temp. 3000°K)
*Two or more number of halogen lamps are preferable.
Radiate chart surface with 2,000 lux or more.

*Connect the camera unit, the deck unit and the trigger switch PCB (MF connector) with MQ connector and extension cables MB, MH.

*Video-IN terminal of the monitor shall be subjected to 75Ω termination.

3. Preparation before Adjustment and Check Items

3-1. Prior to Adjustment

In almost all cases, it becomes necessary to adjust the electrical circuit when any electrical part is replaced.
At any trouble of the electrical circuit, be sure to detect the point of trouble using measuring instruments, perform repair or replacement, then proceed to adjustment.
Refrain from making any adjustment, indiscretely without locating the point of trouble.
There are some items which do not requires adjustment depending on kind of trouble. In actual servicing, adjust the required items only.

3-2. Preparation and Check Items

1. Unless otherwise indicated in particular, set the camera unit at the following mode at the time of adjustment.

Shutter	Standard (1/50 sec.)
Focus	Manual (Just in focus)
Iris (ALC Switching)	Manual (Click position) * Set at AUTO when Y/C MIX adapter is used
White balance	💡 3,000°K

2. As the illumination devices for the chart, be sure to use the type of 3,000°K colour temperature, and set the device so that illuminance of about 2,000 lux is kept on the chart face. Uneven illuminance on the chart face inversely affects adjustment. Install the illumination device so that the chart face is illuminated evenly.
(Light source of two or more lamps is preferable.)
3. Adjustment related to white balance is affected by the light falling onto the white balance sensor.
Be sure to attach the diffusion plate (take off the lower case and attach with adhesive tape) to the front side of the white balance sensor. Also be careful so that any other light than those from the halogen lamp, sun light or fluorescent lamp light for example, is not allowed into the sensor.
4. Unless otherwise specified, use oscilloscope of 10:1 probe and PCB EC TP-2JC (Y-OUT) as the external trigger.
5. For adjusting the camera unit, refrain from using any extension cable (opening the PCB) as far as possible.

3-3. Camera Unit Adjusting Procedure

The following adjustment procedure is in the order required for adjusting all the potentiometers of the camera unit. Some items, therefore, need not be adjusted depending on kind of repair. Perform adjustment of the required items only according to kind of servicing.

Optical Focus Adjustment

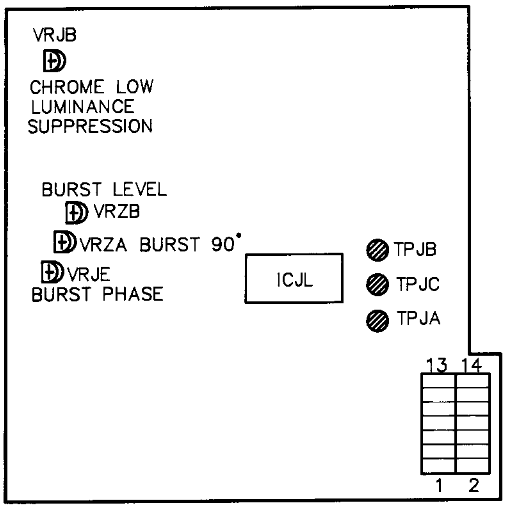
1. Back focus adjustment
2. Horizontal & zoom tracking adjustment

Electrical Adjustment

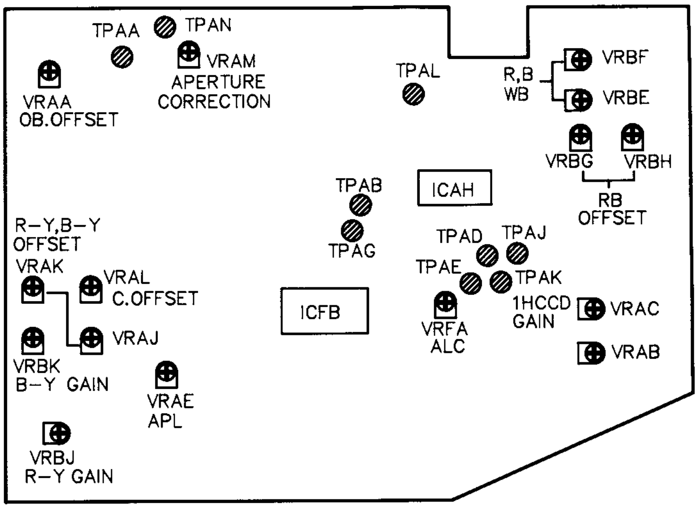
- Sensor drive
  1. Adjustment of 25MHz
- Y/C system
  2. Sub-straight voltage adjustment
- Y system
  3. OB offset adjustment
  4. ALC (Iris) adjustment
  5. APC adjustment
  6. 1H CCD gain adjustment
  7. AP (Aperture) correction adjustment
- C system
  8. R-Y, B-Y offset adjustment
  9. C (Carrier) offset adjustment
  10. Chroma low luminance suppress adjustment
  11. R, B offset adjustment
  12. R, B WB adjustment
- Auto WB system
  13. LL level adjustment
  14. R gain, R offset adjustment
  15. B gain, B offset adjustment
  16. Auto white balance check & adjustment
- C system
  17. Burst level adjustment
  18. B-Y gain adjustment
  19. R-Y gain adjustment
  20. Check and adjustment of chroma angle and gain

4. Location of Adjustment Points (Camera Section)

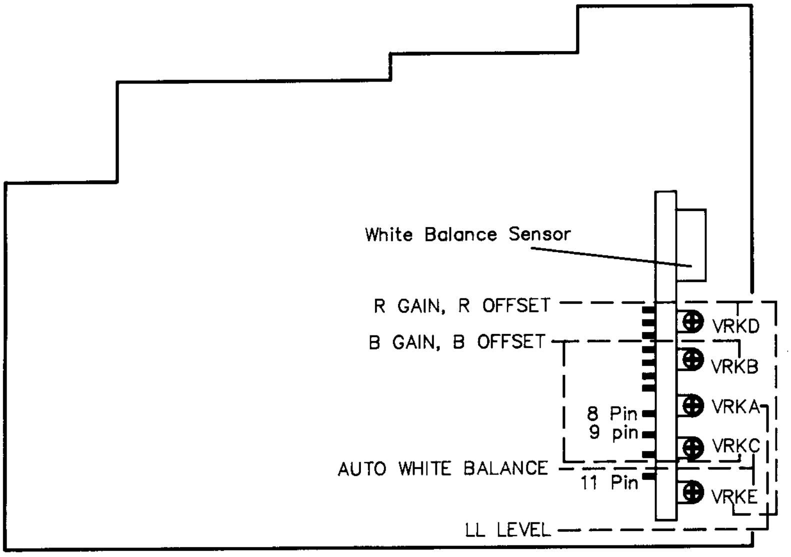
PCB–EC (COMPONENT SIDE)


VRJB
CHROME LOW LUMINANCE SUPPRESSION
BURST LEVEL
VRZB
VRZA BURST 90°
VRJE
BURST PHASE
ICJL
TPJB
TPJC
TPJA
13 14
1 2

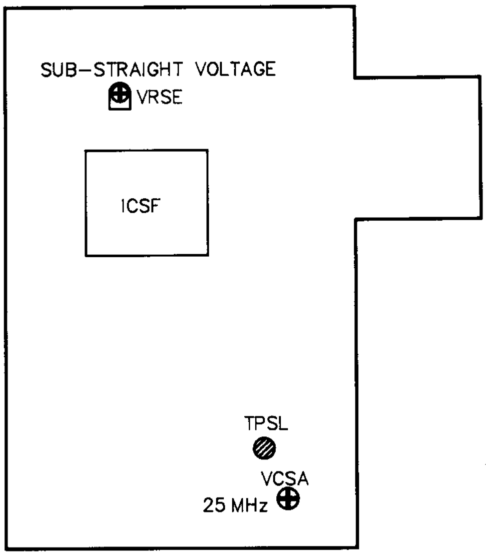
PCB–PC (COMPONENT SIDE)


TPAA
TPAN
VRAM
APERTURE CORRECTION
VRAA
OB.OFFSET
TPAL
R,B WB
VRBF
VRBE
VRBG
VRBH
RB OFFSET
TPAB
ICAH
TPAG
R–Y,B–Y OFFSET
VRAK
VRAL
C.OFFSET
VRAJ
ICFB
TPAD
TPAJ
TPAE
TPAK
VRFA
ALC
1HCCD GAIN
VRAC
VRAB
VRBK
B–Y GAIN
VRAE
APL
VRBJ
R–Y GAIN

PCB–CM (COMPONENT SIDE)


White Balance Sensor
R GAIN, R OFFSET
B GAIN, B OFFSET
8 Pin
9 pin
AUTO WHITE BALANCE
11 Pin
LL LEVEL
VRKD
VRKB
VRKA
VRKC
VRKE

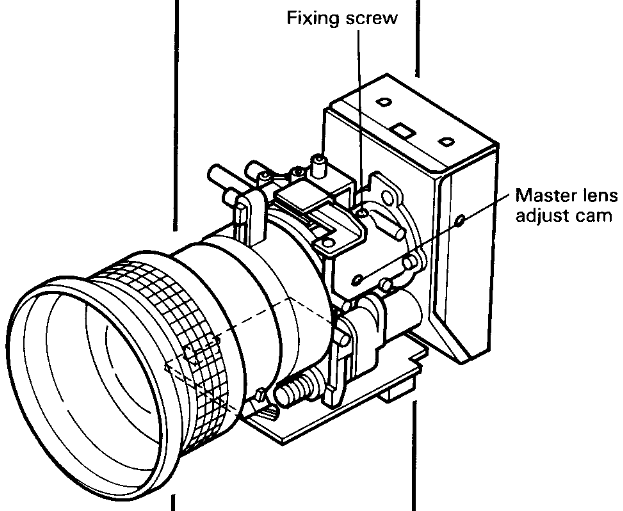
PCB–SD (COMPONENT SIDE)

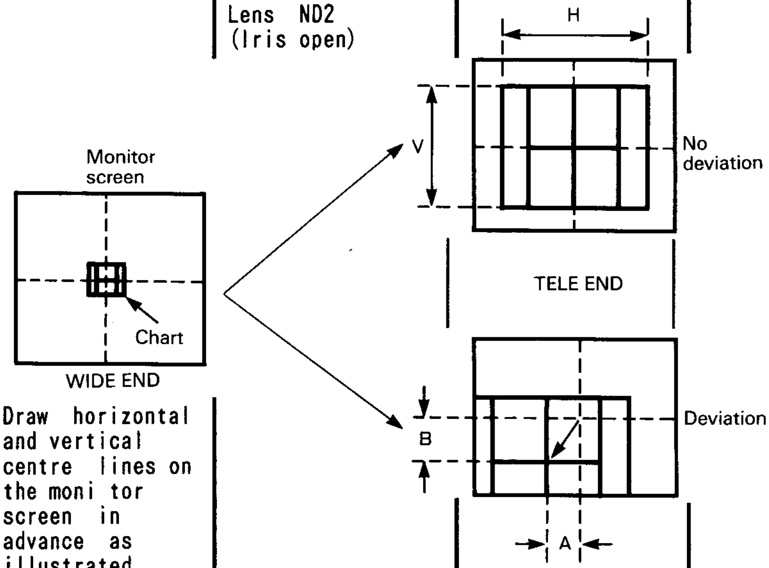
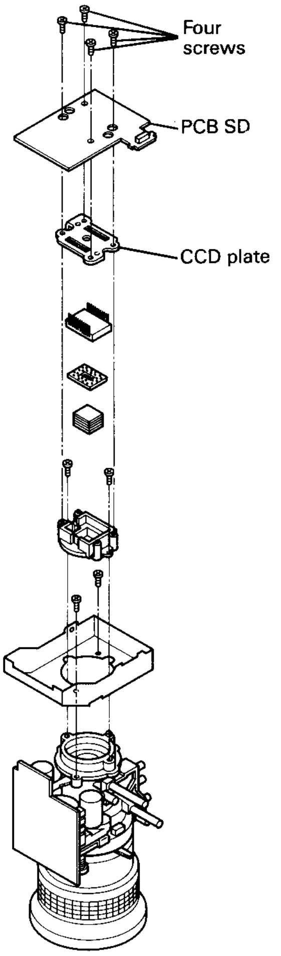

SUB–STRAIGHT VOLTAGE
VRSE
ICSF
TPSL
VCSA
25 MHz

HSC40B1

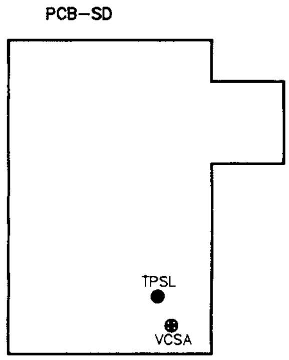
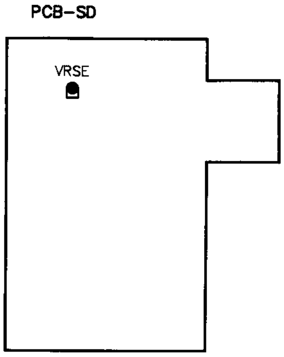
OPTICAL FOCUS ADJUSTMENT

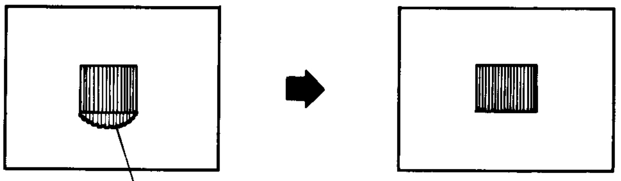
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Back focus	Lens ND2 (Iris open)	Back focus adjusting screwdriver		(1) Shoot an object at a sufficient distance (a object such as a calendar at a distance of more than 10m and of which focus can be checked.) (2) Keep zoom at TELE end and fit the focus ring of the lens manually. (Judge the focus while seeing the monitor screen.) (3) Check the image by driving zoom to WIDE end. (4) If out of focus, loosen the fixing screw and adjust the master lens adjust cam with the back focus adjusting screwdriver to sharp focus. (5) Tighten the fixing screw. (6) Drive zoom from WIDE end to TELE end and check if the object is in focus. (7) At TELE end, adjust the focus ring again manually, then drive zoom to WIDE as it is, and make sure that the object is in focus in both case. (8) Lock the fixing screw.

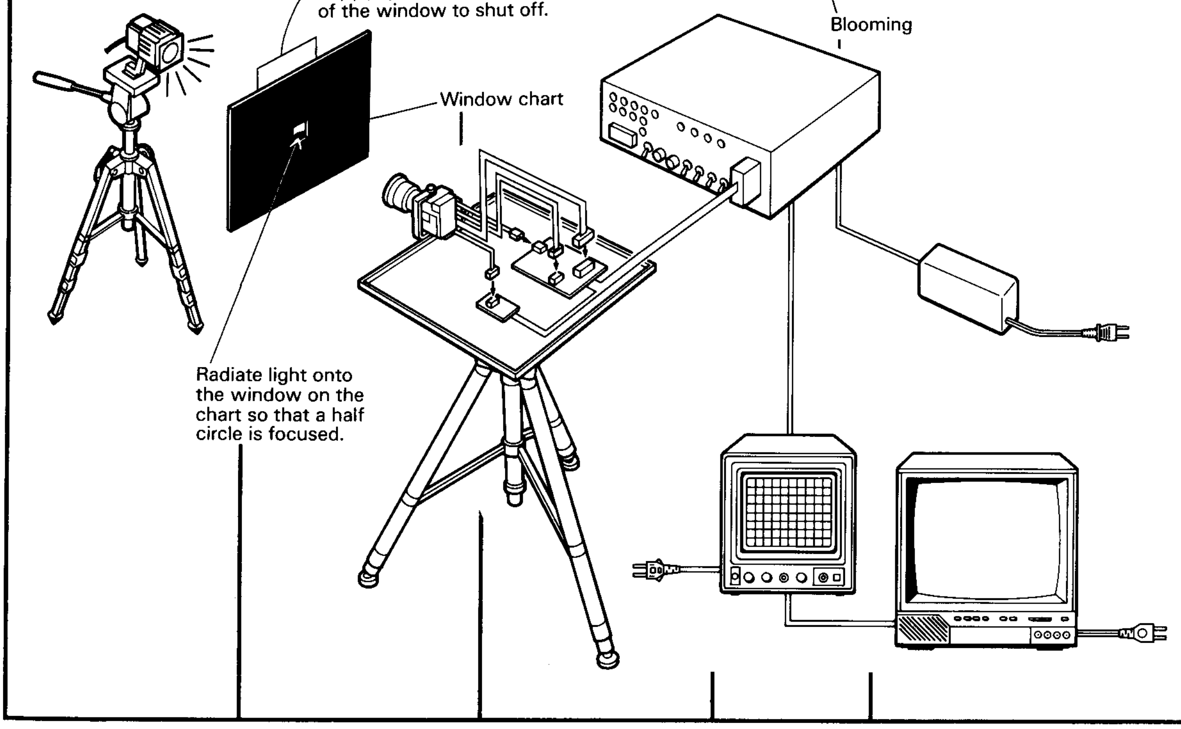


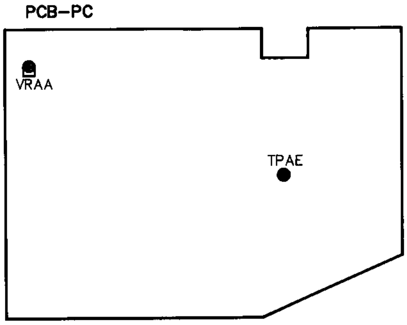
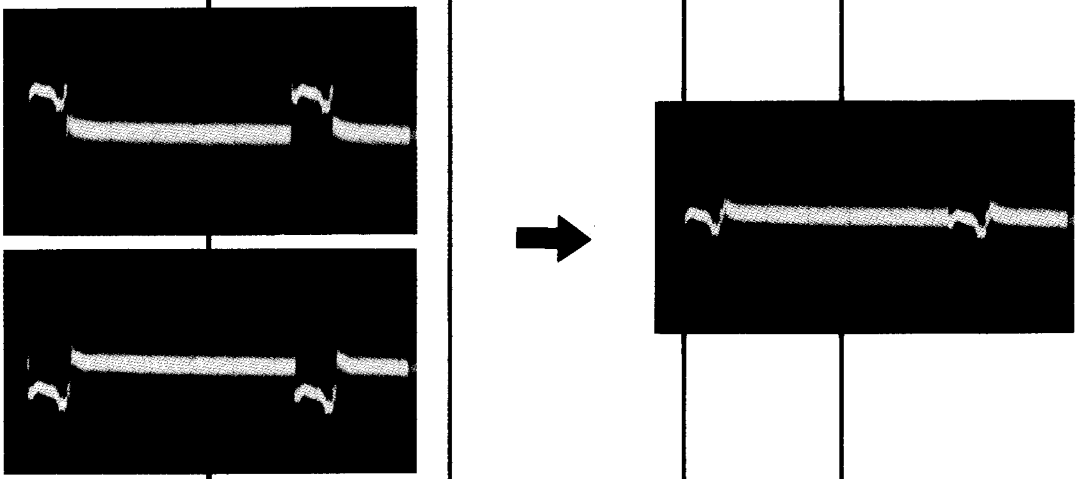
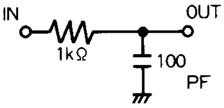
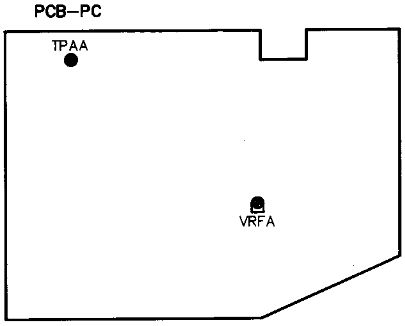
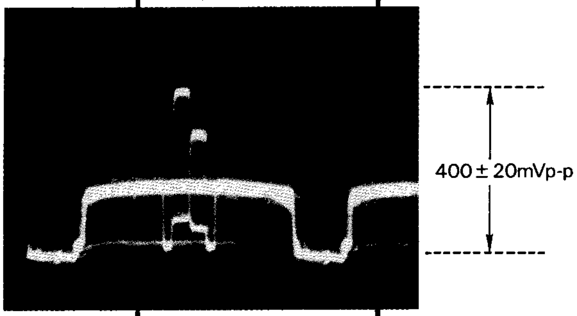
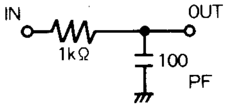
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Horizontality and zoom tracking (Optical axis) *Draw horizontal and vertical centre lines on the monitor screen in advance as illustrated above.	colour chart * Check and adjust horizontality of the tripod attached to the camera with a level vial. Lens ND2 (Iris open)	 H V No deviation Monitor screen Chart WIDE END TELE END B Deviation A $\frac{A}{H} \times 100 \leqq 25\%$ $\frac{B}{V} \times 100 \leqq 35\%$		(1) At WIDE end, fit the chart centre to the monitor centre. (2) Make sure that the horizontal line of the colour bar chart is parallel to that of the monitor. (Angle difference shall be 4.5 max.) (3) Drive zoom from WIDE to TELE end, and make sure that off set of the chart centre is not more than 25% horizontally and 35% vertically on the monitor screen and that there is no skipping of image in the middle of zooming. (4) If the specifications can't be met, perform assembly adjustment of the CCD plate and the PCB SD, then repeat adjustment of above (1) to (3) again. * Slacken the four screws shown below, move the PCB SD with respect to CCD image sensor then tighten the four screws again. 

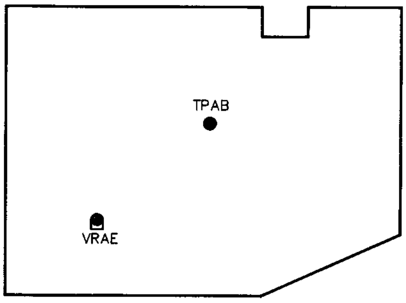
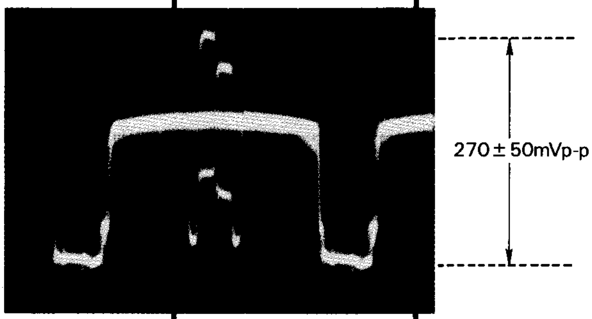
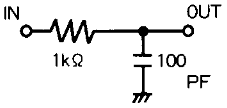
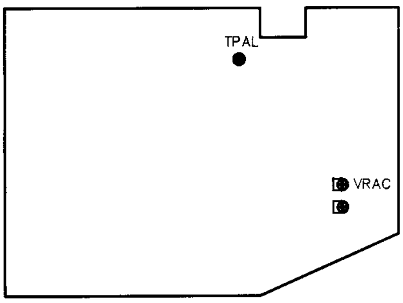
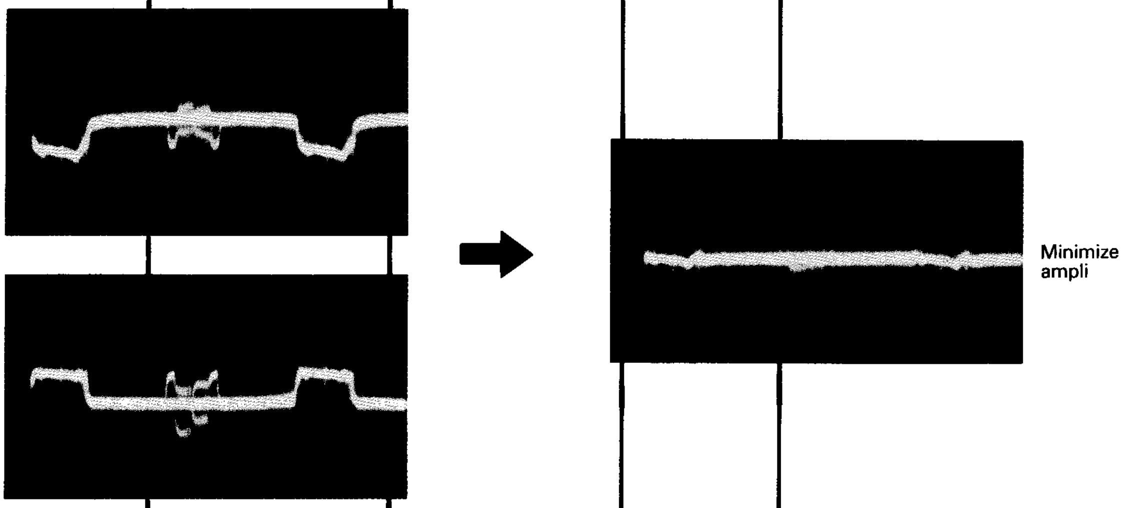
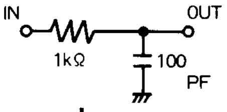
Electorical Adjustment (Note) The numbers attached to each test point and adjusting point are not printed on the PCB. (Example TP2AE→TPAE (print on PCB)

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
25MHz  PCB-SD TPSL VCSA		Frequency counter	TPOSL (PCB SD	(1) Connect the frequency counter to TPOSL (PCB SD). (2) Adjust VCOSA (PCB SD) so that frequency falls within 25.750000 MHz±60Hz.
Sub-straight voltage (Decrease of blooming)  	Iris open *Open by iris(APL changeover)manual.			(1) Set up as illustrated below and project the whole window chart on the whole monitor screen. (2) While observing the monitor, adjust VROSE (PCB SD) to the point where blooming disappears. * Stop adjusting immediately when blooming disappears. Be careful not to over turn the VR.

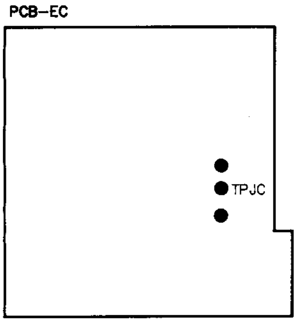


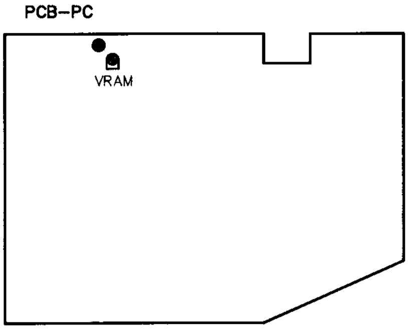

Attach a dispersion plate (white copy paper will do) to the back side of the window to shut off.
Blooming
Window chart
Radiate light onto the window on the chart so that a half circle is focused.

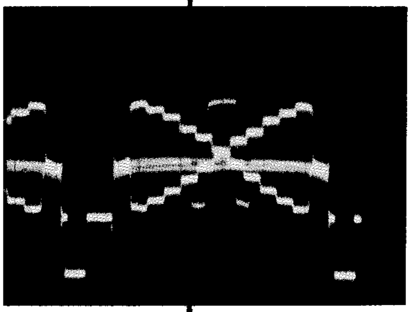
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
OB. OFFSET  	Lens shut-off	Oscilloscope DIV 5mV TIM 10 μ sec.  	TP2AE (PCB PC) LPF is used	(1) Cap the lens. (2) Observe TP2AE (PCB PC) with an oscilloscope through LPF jig. (3) Adjust VR2AA (PCB PC) to the minimum offset.
ALC   	colour chart	Oscilloscope DIV 10mV TIM 10 μ sec.  	TP2AA (PCB PC) LPF is used	(1) Make sure that iris (APL switch) is turned to AUTO. (If Y/C MIX adapter isn't used, turn ON the full auto switch on the PCB LCD.) (2) Take the colour chart at the standard picture angle. (3) Observe TP2AA (PCB PC) with an oscilloscope through LPF jig. (4) Adjust VR5FA (PCB PC) so that the level of peak white comes to 400±20mVp-p. * After adjustment, apply a light shock to the camera to make sure that the adjustment isn't disturbed, and perform adjustment again if disturbed.

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
APL PCB-PC  	colour chart	Oscilloscope DIV 5mV TIM 10µsec.	TP2AB (PCB PC) LPF is used 	(1) Keep iris (APL switch) at auto, and take the colour chart with the standard picture angle. (2) Observe TP2AB (PC board) with an oscilloscope through LPF jig. (3) Adjust VR2AE (PC board) so that the level of peak white comes to 270±50mVp-p. * When Y/C mixing adapter isn't used, i. e. this adjustment is carried out while keeping the full auto switch on PCB LCD turned to ON, turn OFF the full auto switch after completing the adjustment to return to the initial setting mode.
1HCCD gain PCB-PC  	colour chart	Oscilloscope DIV 5mV TIM 10µsec.	TP2AL (PCB PC) LPF is used 	(1) Observe TP2AL (PCB PC) on an oscilloscope. (2) Adjust VR2AC (PCB PC) so that waveform amplitude is minimized. * Make sure that volume adjust position is near the centre. If it is at an end, perform adjustment again so that the adjust position comes near to the centre. jig.

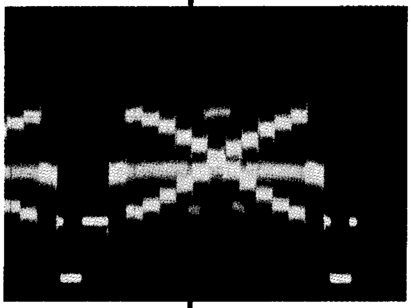
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Aperture correction	Grey scale	Oscilloscope	TP2JC (PCB EC)	(1) Observe TP2JC (PCB EC) on an oscilloscope. (2) Adjust VR2AM (PCB PC) so that pre-shoot and a over-shoot of waveform are slightly seen and the focus becomes the optimum on the monitor screen.



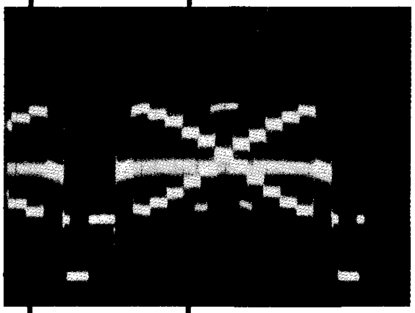




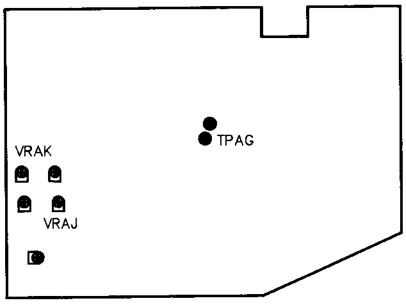
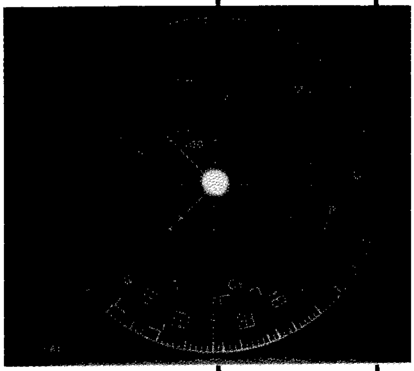
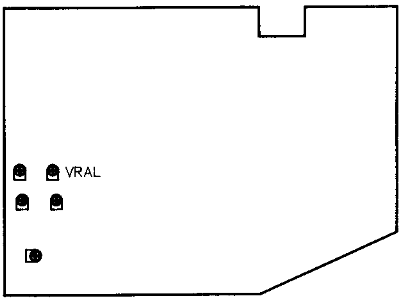
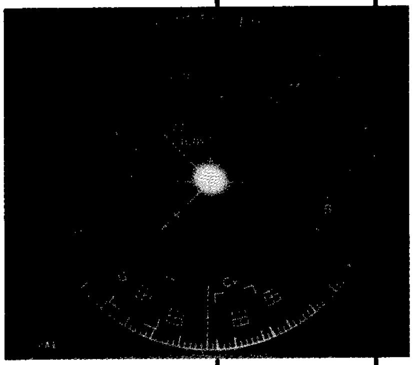
Loose focus

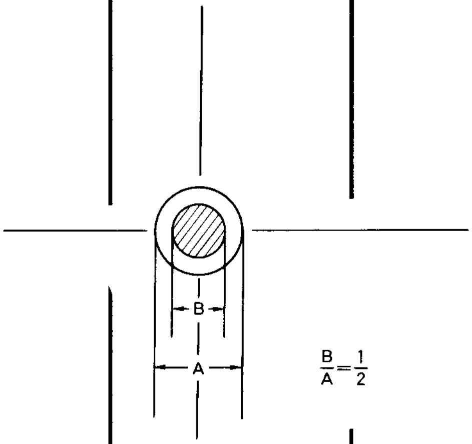
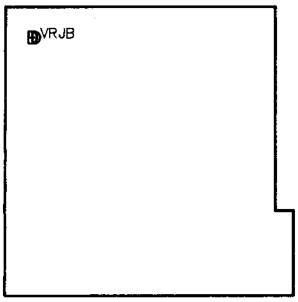
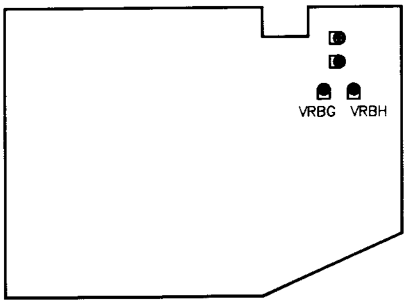
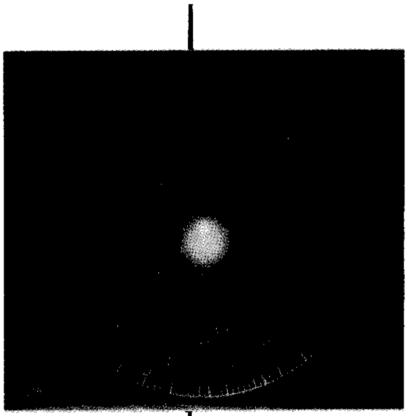


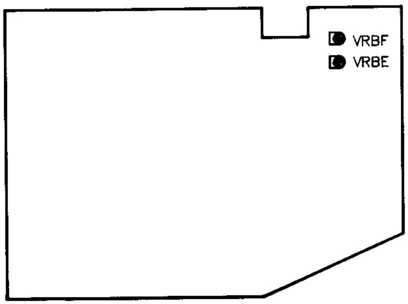
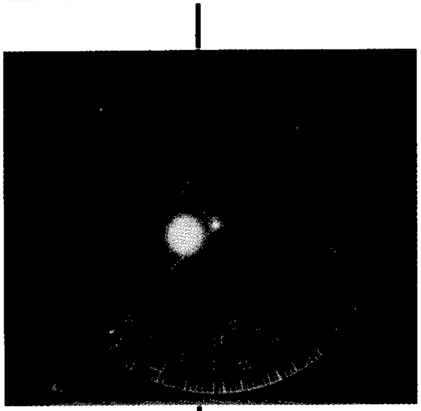
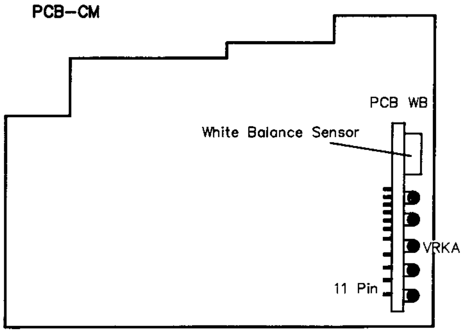
Sharp focus



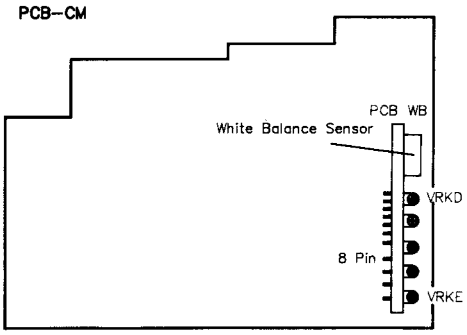
Adequate focus

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
R-Y, B-Y OFFSET PCB-PC 	Lens shut-off	Vector scope SATURATION: 75% GAIN: MAX 	Video out (Y/C MIX adapter)	(1) Ground TP2AG (PCB PC) using 100μF capacitor. (2), Observe with the vector scope at the maximum sensitivity. (3) Adjust VR2AK (PCB PC) and VR2AJ (PCB PC) so that the bright point comes to the centre.
C, OFFSET PCB-PC 	Lens shut-off	Vector scope 	Video out (Y/C MIX adapter)	(1) Take off 100 F capacitor from the above condition. (2) Adjust VR2AL (PCB PC) while observingthe vector scope so that the bright point comes closest to the centre.

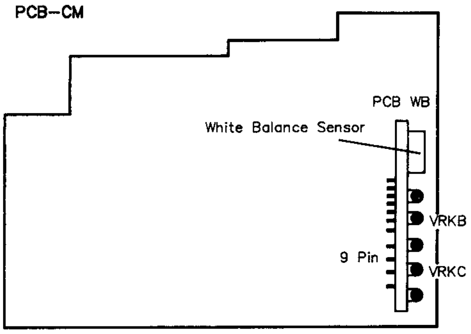
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Chroma low luminance suppression	Lens shut-off  	Vector scope SATURATION: 75% GAIN: MAX $\frac{B}{A}=\frac{1}{2}$	Video out (Y/C MIX adapter) PCB-EC  	(1) Observe with the vector scope at the maximum sensitivity. (2) Adjust VR2JB (PCB EC) to the maximum bright point and take it as A. (3) Adjust VR2JB (PCB EC) againso that the amplitude becomes 1/2 of A.
R, B OFFSET PCB-PC  	White chart * Use a sheet of white paper of high reflection.	Vector scope SATURATION: 75% GAIN: MAX	Video out (Y/C MIX adapter)	(1) Make sure that white balance setting of Y/C MIX adapter is at IN1 (incandescent lamp) mode. (2) Take the white chart onto the full screen. (3) Observe with the vector scope at the maximum sensitivity. (4) Adjust VR2BG and VR2BH (PCB PC) so that the bright point comes to the centre.

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
R, B WB PCB-PC  	White chart White balance "OUT"(☀) Lens←C2+C12	Vector scope SATURATION: 75% GAIN: Adjust for easy checking	Video out (Y/C MIX adapter)	(1) Set white balance of Y/C mixing adapter at OUT (daylight) mode. (2) Take white chart on the whole screen through C2+C12. (3) Observe with the vector scope at the appropriate sensitivity. (4) Adjust VR2BE and VR2BF (PCB PC) so that the bright point comes to lower left of the centre as illustrated below. (5) Take the filter off the lens. (6) Return white balance setting to IN1 (incandescent lamp) mode.
LL level PCB-CM 	Shut off the white balance sensor * Stick a black tape, etc.	Oscilloscope DIV 0.1V/DC	IC7WB (11) pin (PCB WB on PCB CM)	(1) Connect the oscilloscope to IC7WB (PCB WB) (11) pin. (2) Adjust VR7KA (PCB WB) slowly and fix it at the moment when indication on oscilloscope changes from "L") (lower than 1V) to sensor "H" (Over 4V). (3) Open the tape a little and make sure that indication on the oscilloscope changes to "L".

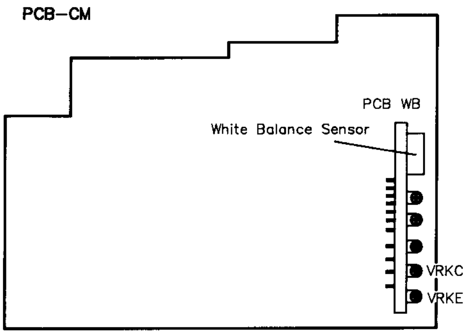
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
R gain, R offset	Attach the diffusing plate (taken off the lower case) to the white balance sensor, and illuminate to 5,000±1,000 lux. * Face the halogen lamp toward the sensor so that the light falls directly onto the sensor. (Approx. 1m) * Note that decorated part of the lens may be affected by heat if the lamp is placed too close. Sensor←C16	Digital voltmeter	IC7WB (8) pin (PCB WB on PCB CM)	(1) Radiate the white balance sensor with 5,000±1,000 lux, 3,000±50° K. (2) Connect the digital voltmeter to IC7WB(8) pin. (3) Adjust VR7KD (PCB WB) so that indication of the digital voltmeter differs by 1,000±0.05V between the sensor with C16 filter installed onto the front and the sensor without C16 filter. (4) Then adjust VR7KE (PCB WB) so that reading of the digital voltmeter becomes 2.200±0.02V when C16 filter isn't installed. (5) Make sure that reading of the digital voltmeter is 3.120±0.02V when C16 filter is installed again. If reading differs, repeat the above adjustments (3)(4) and (5).

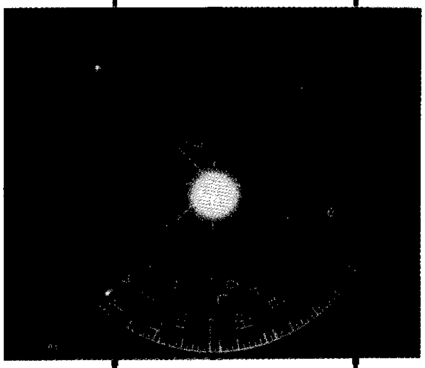


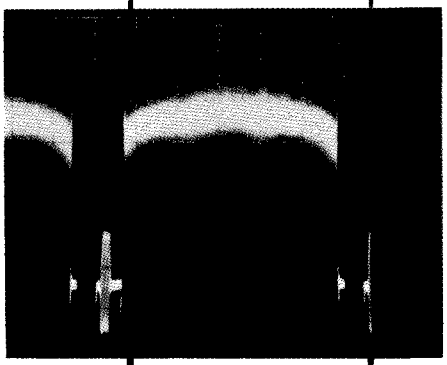
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
B gain, B offset	Adjust to the same mode as R gain, R offset. Sensor←Diffusing plate , C16	Digital voltmeter	IC7WB (9) pin (PCB WB on PCB CM)	(1) Radiate the white balance sensor with 5,000±1,000 lux, 3,000 ±50° K. (2) Connect the digital voltmeter to IC7WB(9) pin. (3) Adjust VR7KB (PCB WB) so that indication on the digital voltmeter differs 1,000±0.05V between the sensor with C16 filter installed onto the front and the sensor without C16 filter. (4) Then adjust VR7KC (PCB WB) so that reading on the digital voltmeter is 2.100±0.02V when C16 filter isn't installed. (5) Make sure that reading on the digital voltmeter is 3.220± 0.02V when C16 filter is installed. If not, repeat the above adjustments (3)(4) and (5).



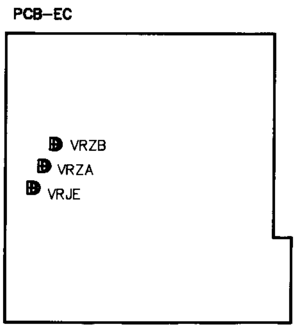
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Auto white balance	White chart (from the middle) Lens C8 Sensor←Diffusing plate C8	Vector scope SATURATION: 75% GAIN: MAX Oscilloscope DIV 10mV TIM 10 sec.	Video out (Y/C MIX adapter)	(1) Set white balance of Y/C MIX adapter at AUTO. (2) Take white chart on the whole screen. (3) Observe with the vector scope at the maximum sensitivity. (4) Make sure that the bright point is at the centre. If the point is off-positioned, adjust VR7KC and VR7KE (PCB WB) so that the bright point comes to the centre. * It may happen in some cases that motion of the bright point is slow and the point is hard to move to the centre. Repeat adjusting VR7KC and VR7KE alternatively until the point comes to the centre. (5) Attach C8 filter before the lens and the sensor respectively. * Practically, the filter can't be attached to the sensor. Hold the filter in front of the sensor. (6) Observe video OUT with the oscilloscope and make sure that carrier leak of chrome is below 70mVp-p. (7) Take the filter off the lens.





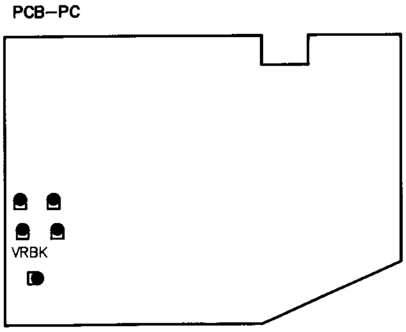
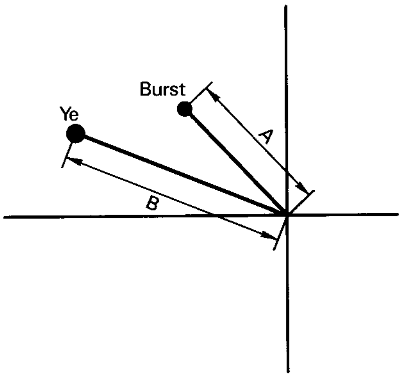
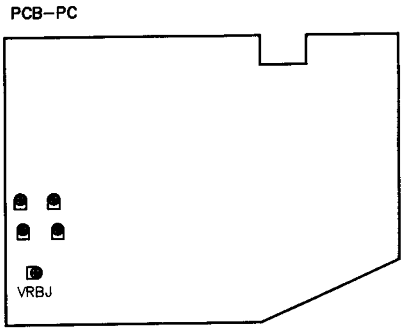
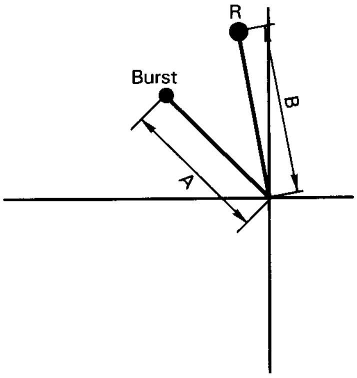


70mVp-p max.

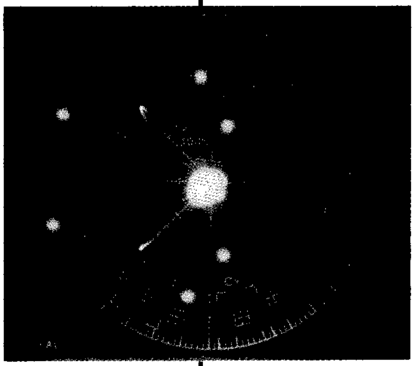
Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Burst level  	Lens shut-off colour chart	Vector scope SATURATION: 75% GAIN:Standard	Video out (Y/C MIX adapter)	(1) Observe with the vector scope at the standard sensitivity. (2) Adjust VR2ZA so that the angle between burst (N) and burst (N+1) is 90° . (3) Adjust VR2ZB so that the burst level is in 75% burst position. * If the burst have a level difference in between ,Adjust it at centre. (4) Take the colour chart at the standard picture angle. (5) Set the vector scope at NTSC vector mode. (6) Adjust VR2JE so that the R bright points become only one. * The video IN terminal of the monitor connected to the vector scope shall be subjected to 75Ω termination.

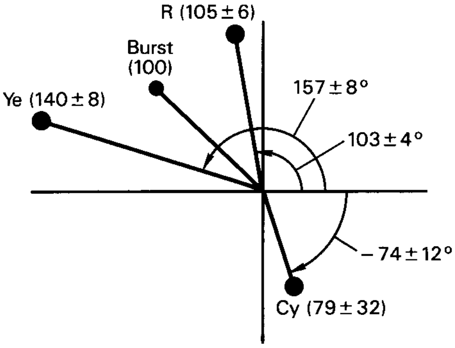
PAL mode

NTSC mode

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
B-Y gain  	colour chart Sensor←Diffusing plate 	Vector scope SATURATION: 75% GAIN:Adjust to easy checking	Video out (Y/C MIX adapter)	(1) Set white balance of Y/C mixing adapter at IN1(incandescent lamp) mode. (2) Take the colour chart at the standard picture angle. (3) Adjust VR2BK (PCB PC) so that the distance of Ye bright point from the centre is 1.5 times of the burst signal A.  $\frac{B}{A}=\frac{1.4}{1}$
R-Y gain  	colour chart Sensor←Diffusing plate 	Vector scope SATURATION: 75% GAIN:Adjust to easy checking	Video out (Y/C MIX adapter)	(1) Adjust VR2BJ (PCB PC) following B-Y gain adjustment so that the distanceof R bright point from the centre is 1.05 times of the burst signal A. (2) Perform the above B-Y and R-Y gain adjustments again to the specified value respectively.  $\frac{B}{A}=\frac{1.05}{1}$

Name of adjustment	Mode (Shooting condition)	Measuring instrument	Test point	Adjustment method
Check and adjustment of chroma angle and gain	colour chart Sensor←Diffusing plate	Vector scope SATURATION: 75% GAIN:Adjust to easy checking	Video out (Y/C MIX adaptor	(1) Check the video out signal with the vector scope. (2) Be certain that the angle and gain of R, Ye and Cy are shown in left figure. If it deviates, excute the following adjustments again. ① Burst level ② B-Y gain ③ R-Y gain

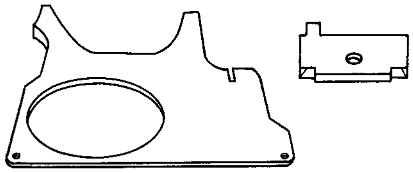
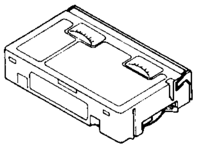
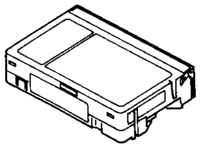




MECHANICAL ADJUSTMENTS

1. Jigs and Measuring Instruments Required for Mechanism Adjustment

1-1. Jigs for Adjustment

Master plane	Cassette torque meter	Alignment tape (PM6KE2C)
859C397030	859C360010	859C397060
		

1-2. Other Tools and Measuring Instruments Required

①Colour monitor (Colour TV)
②Oscilloscope
③Hex key (1.5mm)
④Box driver (4.5mm)

2. CLEANING

Cleaning of the following items is essential at servicing to maintain satisfactory performance at all times.

2-1 Cleaning the head

(1) If normal reproduction of image fails due to deposition of any foreign matter such as dust onto the head, immerse alcohol into a cloth for video head cleaning, put the cloth softly against the drum, and move the drum slowly counter-clockwise while fixing the cleaning cloth.

NOTE : Be careful not to touch directly the head tip attached to the upper drum. The head tip is of highly hard type and is brittle to impact (particularly in lateral direction) and is easily broken. Never move the head tip in lateral direction.

(2) When cleaned with alcohol, be sure to run a tape after drying fully. If drying is insufficient and alcohol is deposited onto a tape, the part of the tape may possibly be damaged.

2-2 Cleaning the tape path system (Refer to Fig. 1)

The points to be cleaned of the tape run system are ;

1. Tension arm
2. Supply impedance roller
3. FE head
4. Impedance roller A
5. Supply guide roller
6. Supply slant pole
7. Upper & lower drums
8. Takeup guide roller
9. Takeup slant pole
10. Movable slant pole
11. A/C head guide shaft
12. AE, A/C head
13. Takeup guide pole
14. Pinch roller
15. Takeup guide arm
16. Capstan shaft
17. Pinch roller guide shaft

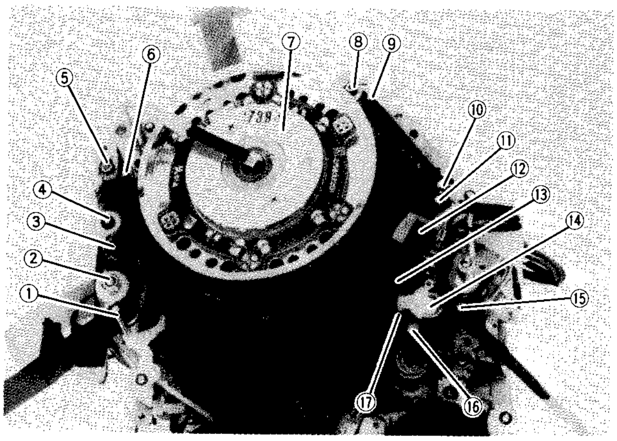


Fig.1

(1) Clean the tape run system with gauze wet with alcohol.

(2) When cleaned with alcohol, be sure to dry fully before running a tape. If drying is insufficient and alcohol is deposited onto a tape, the part of the tape may possibly be damaged.

2-3 Cleaning the reel disk driving system

(1) To the reel disk driving system, clean the brake face of the reel disk.

(2) Clean the brake face with gauge wet with alcohol.

(3) When cleaned with alcohol, start operating the system after drying fully.

3. HOW TO ATTACH THE MASTER PLANE (Refer to Fig. 2.)

(1) Take off the cassette housing. (See 4-1.)

(2) Take off the gear LA3. (See 4-2.)

(3) Turn the supply & Takeup guide assembly to loaded mode (by turning the main cam gear counter-clockwise).

(4) Attach the master plane (Pats No. : 859C397030) while fitting the positioning hole to the positioning pin of the main plate.

Note : When the master plane is used, keep it fixed firmly by pressing part A (See Fig. 2.)

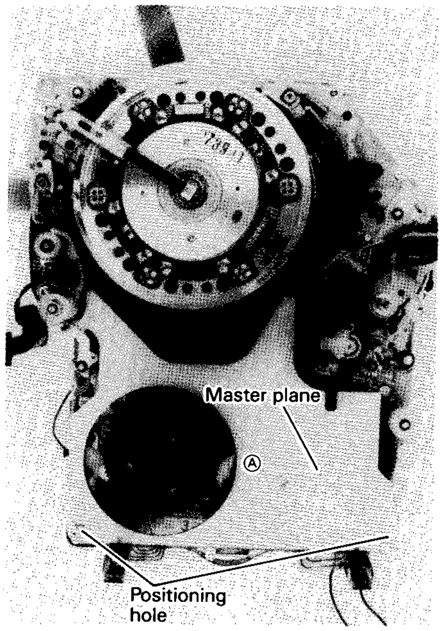


Fig.2

4. HOW TO REPLACE THE PRINCIPAL PARTS

4-1 Cassette housing replacement

4-1-1 Dismounting

(1) Keep the cassette housing closed.
(2) Remove the fixing screw (ⓐ : Fig. 3-1-1), and take the dew sensor and the lead wire off the cassette housing.
(3) Take the lead wire of FE head off the lead wire clamper of the tape end sensor. (See Fig. 3-1-2.)
(4) Remove the tape end sensor fixing screw (ⓑ : Fig. 3-1-2), and remove the tape end sensor from the cassette housing carefully so that the FPC cable may not be damaged.
(5) Take off six screws (3 at the left side ⓒ, ⓓ, ⓔ Fig. 3-1-3, and 3 at the right side ⓕ, ⓖ, ⓗ Fig. 3-1-4) fixing the cassette housing.
(6) Move the eject lever in arrow direction to change to eject mode. (See Fig. 3-1-1.)
(7) Take off two positioning pins (ⓘ, ⓙ, Fig. 3-1-4) at the right side of the cassette housing from the main plate.
(8) Take them off from the main plate by pushing the mounting seat at the right side of the cassette housing outward a little and by pulling upward.
(9) Turn the cassette housing clockwise around the positioning pin ⓚ (Fig. 3-1-3), make sure that the fixing screw ⓓ (Fig. 3-1-3) mounting seat is removed from the main plate passing under the spring-S, then take off the main plate by pulling upward carefully so that the tape end sensor and the lead wire may not be damaged.

4-1-2 Mounting

(1) Turn the cassette housing to eject mode.
(2) Temporarily fit the positioning hole ⓚ of the cassette housing with the positioning pin of the main plate in reverse order of dismounting the cassette housing, turn the cassette housing counter-clockwise around the point, then attach the left side of the cassette housing so that the positioning hole ⓛ (Fig. 3-1-3) goes under the spring S and coincides with the positioning pin of the main plate.
(3) Push the right side mounting seat of the cassette housing outward a little to lower it to the attaching position of the main plate, then attach to the main plate by fitting two positioning holes of the cassette housing (ⓘ, ⓙ : Fig. 3-1-4) to the positioning pins of the main plate.
(4) Tighten the cassette housing and fixed with six fixing screws (ⓒ, ⓓ, ⓔ, ⓕ, ⓖ & ⓗ).
(5) Attach the tape end sensor to the cassette housing.
(6) Bundle the lead wires of FE head with the lead wire clamper of the tape end sensor.
(7) Attach the dew sensor to the cassette housing.

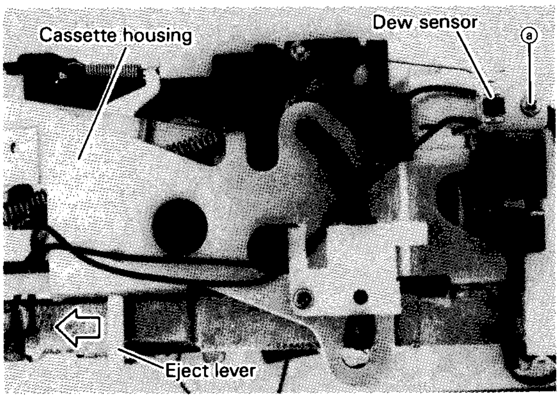


Fig.3 − 1 − 1

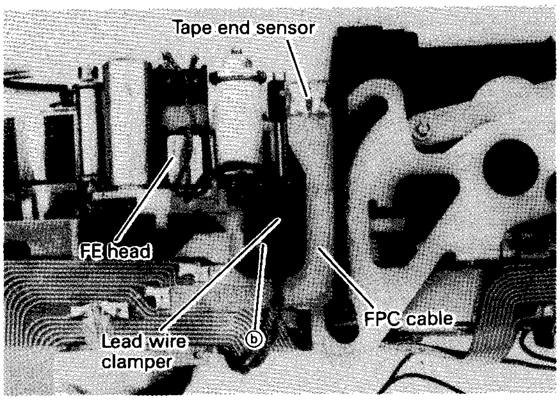


Fig.3 − 1 − 2

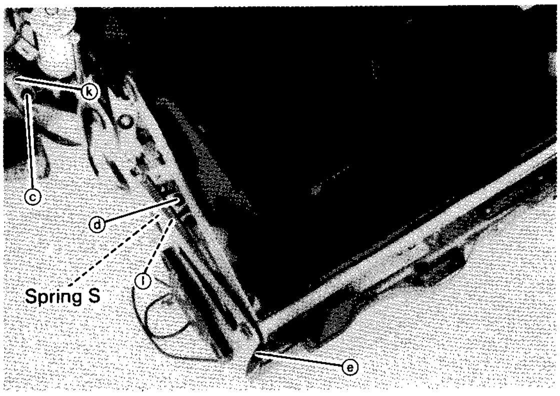


Fig.3 − 1 − 3

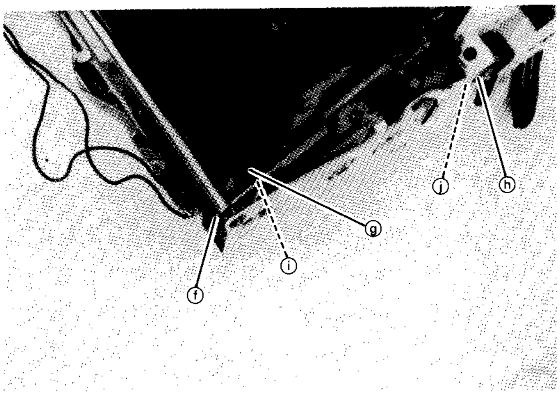


Fig.3 − 1 − 4

4-2 Gear LA3 replacement

Replacement of individual gear LA3 is seldom required but the supply & Takeup tape guide is turned to loading and unloading mode in some cases when other parts are adjusted or replaced.
The gear LA3 is taken off in such a case to turn the main cam gear.

4-2-1 Dismounting
- (1) Take off the cut washer which is fixing the gear LA3 and take off the gear.

4-2-2 Mounting
- (1) Attach the gear LA3 to the main plate and fix with the cut washer.

Note : The gear LA3 can be attached more easily by turning the main cam gear a little.

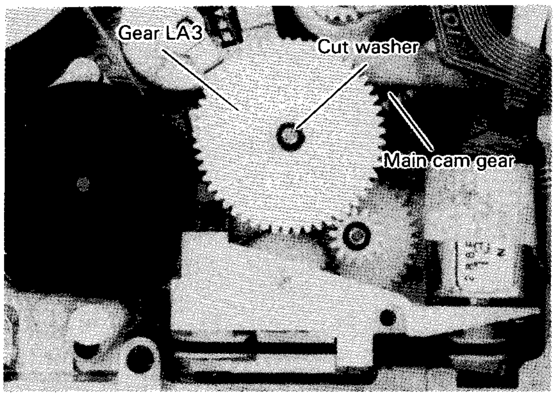


Fig.3 – 2 – 1

4-3 PCB MAD replacement

4-3-1 Dismounting
- (1) Release the board holder on the main plate.
- (2) Take off the connectors AE and AF on the PCB MDA.
- (3) Take off the PCB MDA fixing screws and turn the board.
- (4) Take off the FPC cables from the connectors AB and AD on the PCB MDA.
- (5) Take the PCB MDA off the main plate.

4-3-2 Mounting
- (1) Connect the FPC cable of the drum motor and the FPC cable of the capstan motor to the connectors AD and AB on the PCB MDA.
- (2) Attach the PCB MDA onto the main plate and fix with the set screw and the board holder.
- (3) Connect the AE connector from the AC head and the AF connector from the FE head to the connectors on the PCB MDA.

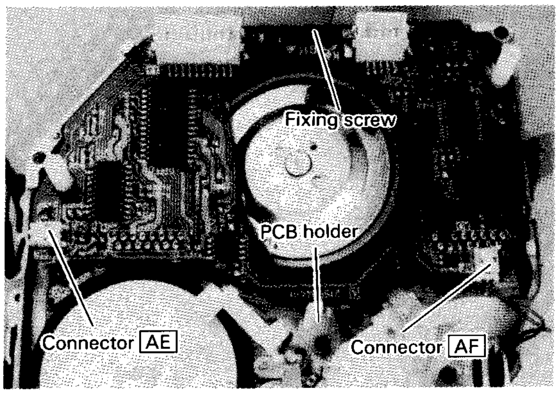


Fig.3 – 3 – 1

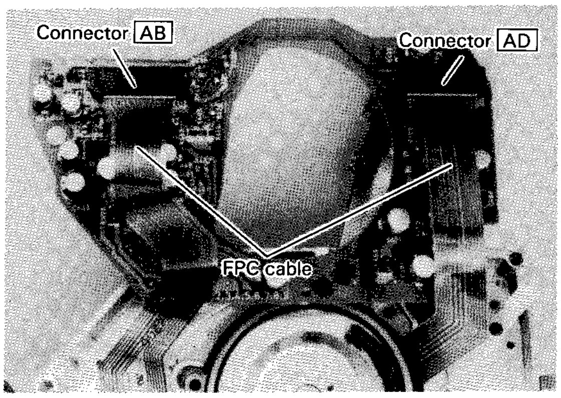


Fig.3 – 3 – 2

4-4 Drum assembly replacement

4-4-1 Dismounting

(1) Take off the fixing screw ⓐ (Fig. 3-4-1) and remove the brush.

(2) Take off the PCB MDA. (See 4-3.)

(3) While fixing the drum assembly firmly, remove three drum assembly fixing acrews (ⓑ, ⓒ, ⓓ Fig. 3-4-2).

(4) Hold up the drum assembly slowly so that the assembly may not touch any peripheral part then take off.

Note : The Takeup tape guide stopper is positioned close to the drum assembly. In detaching and attaching the drum assembly, be careful not to put the assembly in contact with the stopper.

4-4-2 Mounting

(1) Pass the FPC cable attached to the drum assembly from the front side to the pack side of the drum assembly mounting hole.

(2) Attach the drum assembly onto the main plate so that the positioning pins on the main plate (ⓖ, ⓗ : Fig. 3-4-4) go into the positioning holes (ⓔ, ⓕ: Fig. 3-4-3) of the assembly while carefully avoiding contact with any peripheral part of the drum assembly.

(3) Fix the drum assembly with three drum assembly fixing screws (ⓑ, ⓒ, ⓓ : Fig. 3-4-2).

(4) Attach the PCB MDA.

(5) Attach the brush.

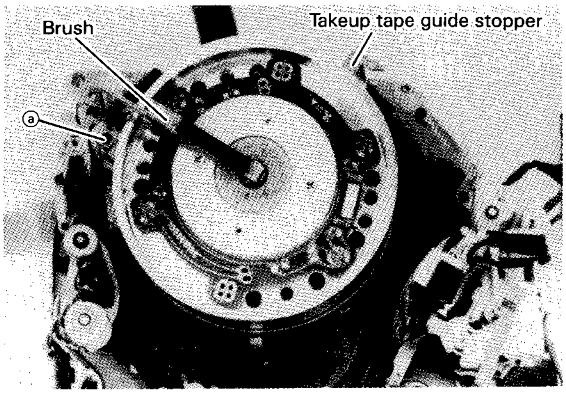


Fig.3 – 4 – 1

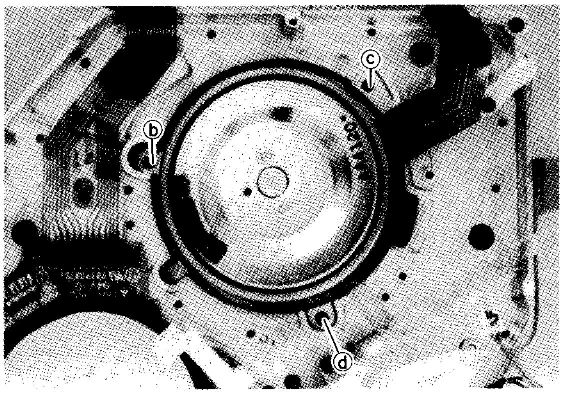


Fig.3 – 4 – 2

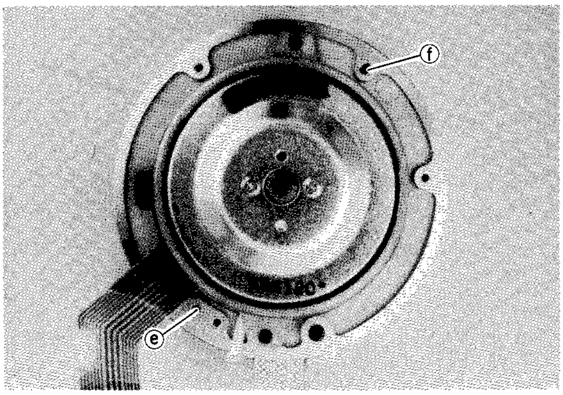


Fig.3 – 4 – 3

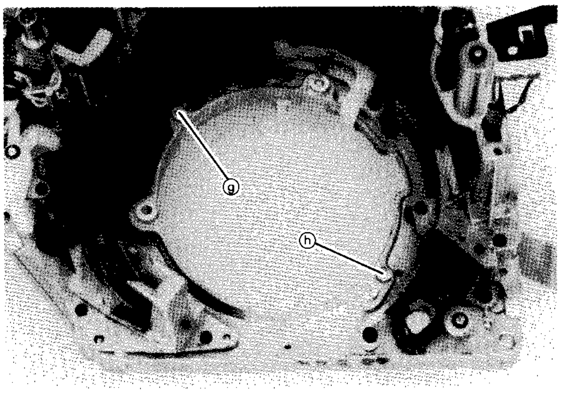


Fig.3 – 4 – 4

4-5 Upper drum replacement

4-5-1 Dismounting

(1) Remove the fixing screw ⓐ (Fig. 3-5-1) and take off the brush.

(2) Remove solder from the solder terminals of each head (4 terminals to each head) on the periphery of the upper drum. (See Fig. 3-5-2)

(3) Take off two upper drum fixing screws (ⓑ, ⓒ : Fig. 3-5-2) on the upper drum.

(4) Take the upper drum off the lower drum by holding upward.

Note : If the upper drum is hard to remove even when the two fixing screws and the solder terminals of each head are taken off, heat the root of the upper drum fixing screws with a solder iron for easier removing.

4-5-2 Mounting

(1) Face the head channel position check hole of the lower drum to this side.

(2) Face the head channel position check mark of the upper drum to the right side, and attach the upper drum to the lower drum so that each terminal of the lower drum goes into the hole of each solder terminal of the upper drum.

(3) Fix the upper drum to the lower drum with two fixing screws (ⓑ, ⓒ : Fig. 3-5-2)

(4) Solder the non-soldered terminals on the upper drum.

(5) Attach the brush.

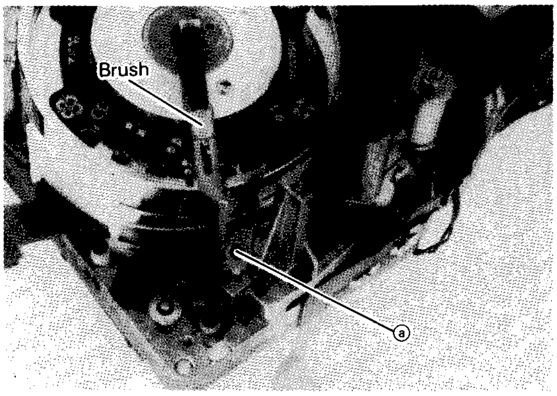


Fig.3 − 5 − 1

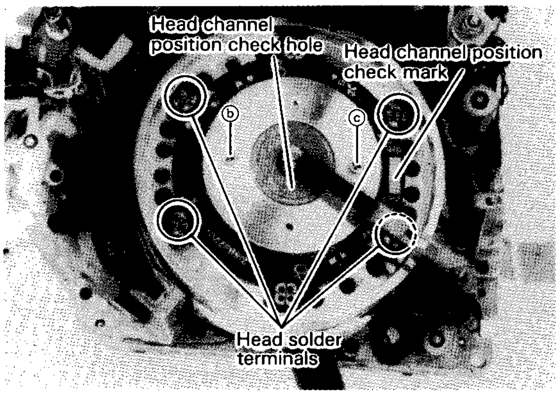

Head channel position check hole
Head channel position check mark
ⓑ
ⓒ
Head solder terminals

Fig.3 − 5 − 2

4-6 SYNC belt replacement

4-6-1 Dismounting

(1) Loosen two fixing screws (ⓐ, ⓑ Fig. 3-6-1) to the point where the reel idler can move.

(2) Slide the reel idler in arrow direction, and take off the SYNC belt from the capstan motor and the reel idler.

4-6-2 Mounting

(1) Slide the reel idler in arrow direction, and attach the SYNC belt to the capstan motor and the reel idler.

(2) Slide the reel idler in opposite direction of the arrow to stop, then fix with two fixing screws (ⓐ, ⓑ : Fig. 3-6-1).

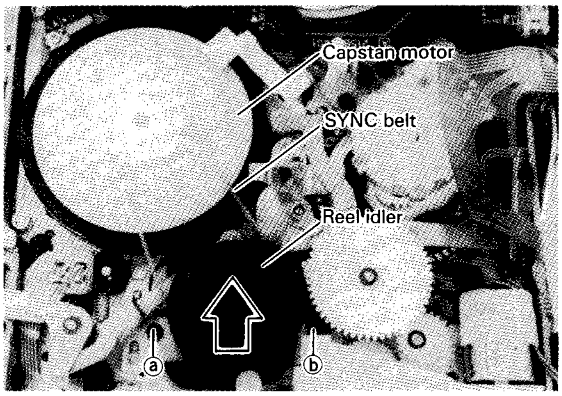


Fig.3 − 6 − 1

4-7 Capstan motor replacement

4-7-1 Dismounting

(1) Remove the cassette housing. (See 4-1.)
(2) Take off the PCB MDA. (See 4-3.)
(3) Take off the SYNC belt. (See 4-6.)
(4) Remove the fixing screw ⓐ (Fig. 3-7-1) and take off the capstan brake.
(5) Remove the fixing screw ⓑ (Fig. 3-7-1) and take off the cam gear hold plate.
(6) While fixing the capstan motor firmly, take off three fixing screws (ⓒ, ⓓ, ⓔ : Fig. 3-7-2) from the front side of the main plate, and take out the capstan motor slowly from the rear side of the main plate using care so that the motor may not come in contact with any peripheral part.

4-7-2 Mounting

(1) From the rear side of the main plate, attach the capstan motor carefully so that the motor may not come in any peripheral part, then fix from the front side of the main plate with three fixing screws (ⓒ, ⓓ, ⓔ : Fig. 3-7-2).
(2) Mount the cam gear hold plate onto the main plate so that the positioning pins coincide with the positioning holes on the main plate, then fix with the fixing screw ⓑ (Fig. 3-7-1).
(3) Mount the capstan brake so that the positioning pins coincide with the positioning holes on the main plate, then fix with the fixing screw ⓐ (Fig. 3-7-1).
(4) Attach the SYNC belt.
(5) Attach the PCB MDA.
(6) Attach the cassette housing.

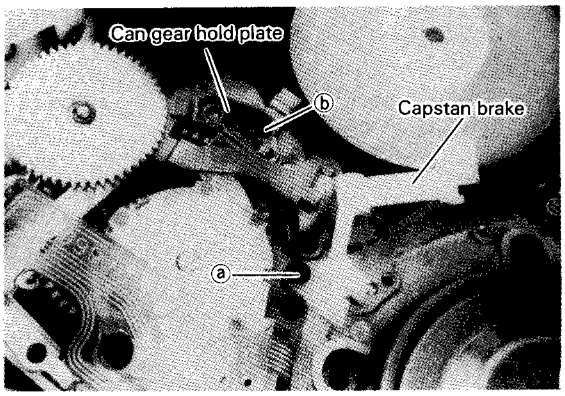


Fig.3 − 7 − 1

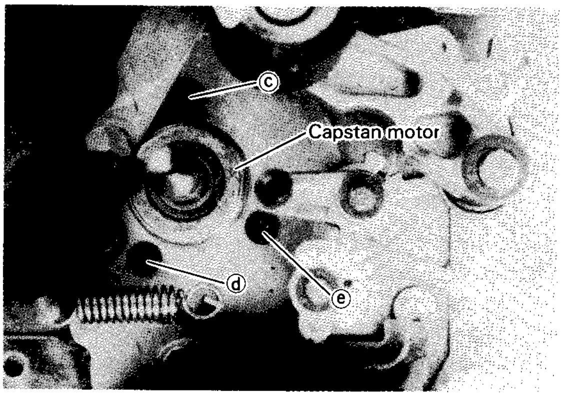


Fig.3 − 7 − 2

4-8 Loading motor & loading belt replacement

4-8-1 Dismounting

(1) While keeping the cassette housing under eject mode, remove the loading motor assembly fixing cut washer (Fig. 3-8-1) from the front side.
(2) Take off the cut washer (Fig. 3-8-2) which is fixing the gear LA3, and remove the gear.
(3) Remove the fixing screw ⓐ (Fig. 3-8-2), and hold the loading motor assembly upward to take it off the main plate.
(4) Remove the loading belt from the worm LA and the loading motor. (Fig. 3-8-3)
(5) Remove two fixing screws (ⓑ, ⓒ : Fig. 3-8-3) and take the loading motor off the motor holder.

4-8-2 Mounting

(1) Attach the loading motor onto the motor holder, and fix with two fixing screws (ⓑ, ⓒ : Fig. 3-8-3).
(2) Attach the loading belt to the worm LA and the loading motor.
(3) Mount the loading motor assembly onto the main plate so that the gear LA1 mounting shaft attached to the loading motor assembly goes into the mounting hole on the main plate, then fix with the fixing screw ⓐ (Fig. 3-8-2).
(4) Mount the gear LA3.
(5) Attach the loading motor assembly fixing cut washer (Fig. 3-8-1) from the front side of the deck.

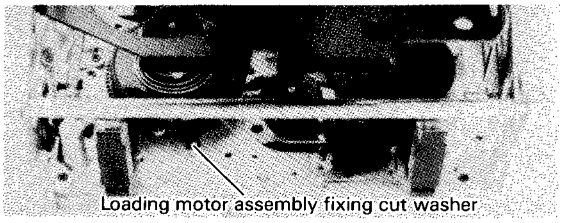


Fig.3 − 8 − 1

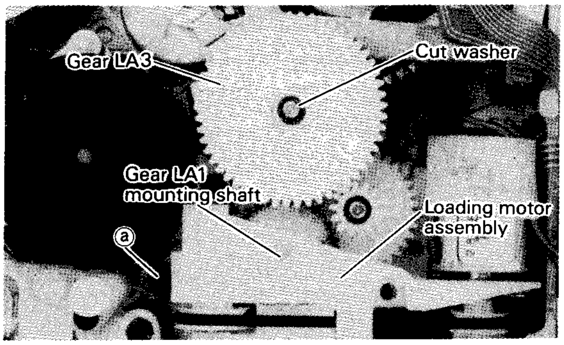


Fig.3 − 8 − 2

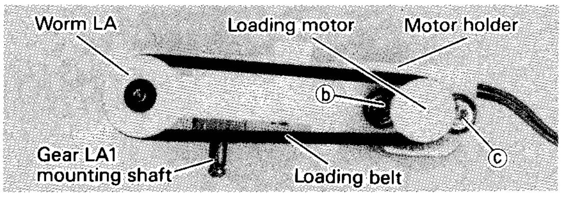


Fig.3 − 8 − 3

4-9 Pinch roller replacement

4-9-1 Dismounting

(1) Keep the cassette housing under eject mode.

(2) Remove the fixing screw ⓐ (Fig. 3-9-1) and take the door guide A off the cassette housing.

(3) Pull the pinch roller cap upward to take it off the pinch roller arm.

(4) Pull the pinch roller upward to take it off the pinch roller arm.

4-9-2 Mounting

(1) Attach the pinch roller to the pinch roller arm.

(2) Attach the pinch roller cap to the pinch roller arm so that the positioning shaft of the pinch roller arm goes into the positioning hole of the pinch roller cap.

(3) Attach the door guide A to the cassette housing so that the positioning pin of the door guide A goes into the positioning hole of the cassette housing, then fix with the fixing screw ⓐ (Fig. 3-9-1).

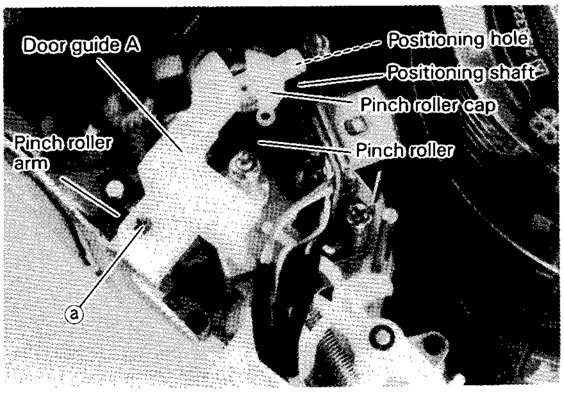

Door guide A
Positioning hole
Positioning shaft
Pinch roller cap
Pinch roller
Pinch roller arm
ⓐ

Fig.3 − 9 − 1

4-10 Mode switch replacement

4-10-1 Dismounting

(1) Remove the connector AF on the PCB MDA. (See Fig. 3-10-1.)

(2) Remove two mode switch fixing screws (ⓐ, ⓑ : Fig. 3-10-1) and take the mode switch off the main plate.

(3) Remove solder of 5 solder terminals of the FPC cable soldered to the mode switch , and take off the FPC cable from the mode switch. (See Fig. 3-10-2.)

4-10-2 Mounting

(1) Match the check-up marks on the mode switch.

(2) Practice fine adjustment by turning the gear of the mode switch while checking with a tester so that the circuits between the common terminal of the mode switch and each terminal are conducted in the following state ;

Note : Use a tester of ×1000 range.

P0 ..... Conducting
P1 ..... Conducting
P2 ..... Open
P3 ..... Conducting

(3) Attach the mode switch onto the main plate while carefully preventing the mode switch gear from turning and in the manner that the gear is meshed with the main cam gear (centre side), and fix the switch with two fixing screws. (ⓐ, ⓑ : See Fig. 3-10-1.)

(4) Connect the connector AF on the PCB MDA.

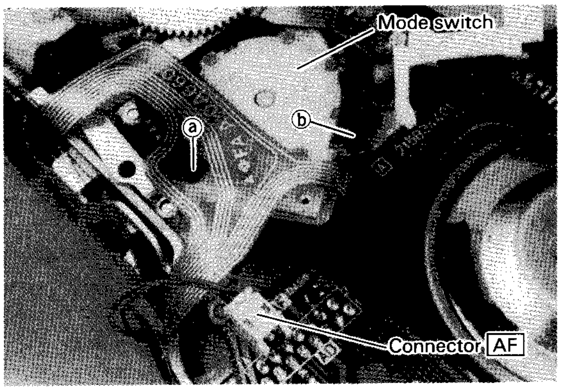

Mode switch
ⓐ
ⓑ
Connector AF

Fig.3 − 10 − 1

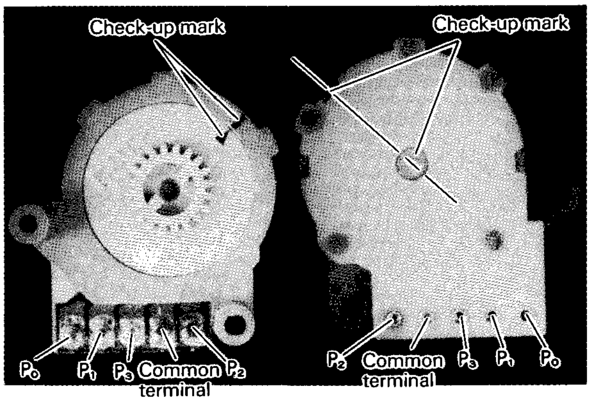

Check-up mark
Check-up mark
P_0
P_1
P_3
Common terminal
P_2
P_2
Common terminal
P_3
P_1
P_0

Fig.3 − 10 − 2

4-11 Supply reel disk replacement

4-11-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer (Fig. 3-11-1) which is fixing the supply reel disk.
(3) Take the reel disk off the main plate by moving the brake S in arrow direction.

4-11-2 Mounting

(1) Make sure that the thrust washer is attached to the reel disk mounting shaft.
(2) Move the brake S in arrow direction and attach the reel disk to the reel disk mounting shaft.
(3) Make sure that the supply reel disk turns smoothly while the brake S is kept at the moved position.
(4) Mount the master plane. (See Para. 3 on page 46.)
(5) Place a square for height adjustment (reel disk measuring side : REEL-M mark) on the master plane.
(6) Slide the height measuring part of the square to the edge of the reel disk, and make sure that the reel disk turns smoothly at A point of the square (higher one of measuring points) and doesn't turn at B point (lower one of measuring points).
Check this in two directions of X axis and Y axis.
(7) If the result of the above check isn't satisfactory, adjust by changing number of the thrust washers (material code : 552C001020) attached under the reel disk.
(8) Fix the reel disk by the cut washer.
(9) Mount the cassette housing.

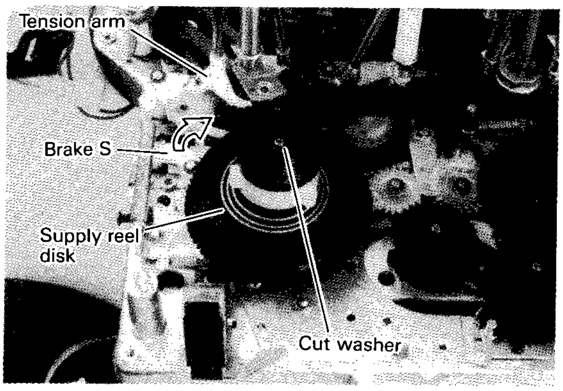


Fig.3 – 11 – 1

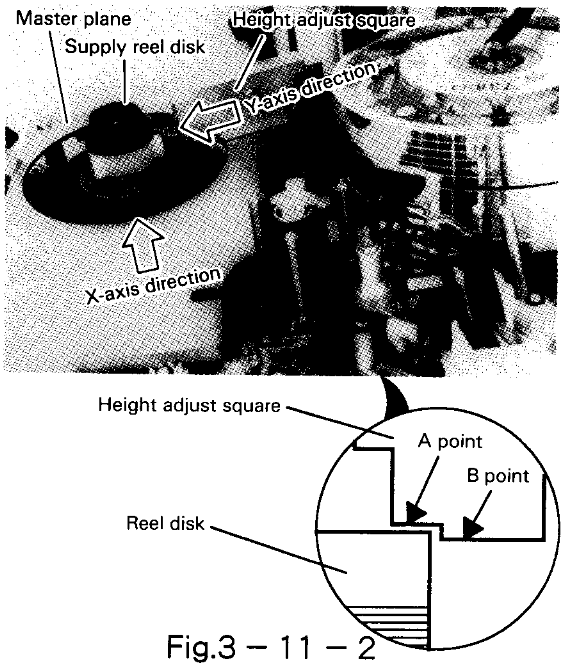


Fig.3 – 11 – 2

4-12 Reel gear A replacement

4-12-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer ⓐ (Fig. 3-12-1) which is fixing the gear TU1-A, and remove the gear TU1-A from the main plate.
(3) Take off the cut washer ⓑ (Fig. 3-12-1) which is fixing the reel gear A.
(4) Take the reel gear A off the main plate while moving the lever (for attaching the right side of the spring) of the cam plate assembly shown in Fig. 3-12-1 a little to the right.

4-12-2 Mounting

(1) Make sure that the thrust washer is attached to the reel gear A mounting shaft.
(2) Move the lever (for attaching the right side of the spring) of the cam plate assembly shown in Fig. 3-12-1 slightly to the right.
(3) Attach the reel gear A to the main plate so that the lower gear of the reel gear A is meshed with the gear of the reel gear lock unit, then fix with the washer ⓑ (Fig. 3-12-1).
(4) Make sure that the thrust washer is attached to the gear TU1-A mounting shaft.
(5) Attach the gear TU1-A and fix with the cut washer ⓐ (Fig. 3-12-1)
(6) Attach the cassette housing.

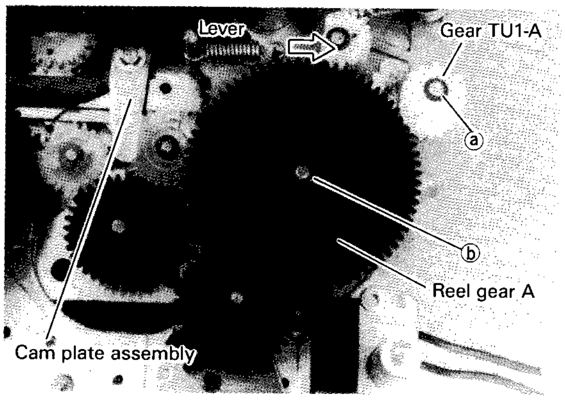


Fig.3 – 12 – 1

4-13 AC head replacement

4-13-1 Dismounting

(1) Keep the cassette housing under eject mode.
(2) Remove the fixing screw ⓐ (Fig. 3-13-1), and take the door guide A off the cassette housing.
(3) Remove the connector $\boxed{\text{AE}}$ on the PCB MDA.
(4) Take off the lead wires connected to the AC head from the lead wire holder. (Fig. 3-13-1)
(5) Remove the fixing screw ⓑ (Fig. 3-13-1) and take off the lead wire holder.
(6) Remove the nut S which is fixing the AC head assembly while holding the head assembly so as not to come in contact with the peripheral parts. (See Fig. 3-13-2.)
(7) While pressing the AC arm spring, hold the AC head assembly upward to take if off the AC head base plate.
(8) Remove three screws (ⓒ, ⓓ, ⓔ: Fig. 3-13-3) which are fixing the AC head to the AC head arm and the AC spring, then take the AC head off the AC head arm.
(9) Remove the lead wires connected to the AC head.

4-13-2 Mounting

(1) Solder the lead wires to the AC head.
(2) With the flange screw ⓔ (Fig. 3-13-3) and the AC spring, attach the AC head to the AC arm.

Note : Edge of the flange screw ⓔ may tighten and fix the AC head in some cases. Move the AC head for trial to make sure that the head isn't fixed.

(3) Fix the AC head with two screws (ⓒ, ⓓ : Fig. 3-13-3) so that the mounting face of the AC head is kept parallel to the AC head arm.
(4) Attach the AC head assembly to the AC head base plate so that one end of the AC arm spring is hooked onto the AC head base plate and the other end onto the AC head arm. (See Fig. 3-13-2.)
(5) Attach the nut S (Fig. 3-13-2) to the AC head assembly mounting shaft, and tighten to the point where the front end of the AC head arm (part A in Fig. 3-13-4) comes down to the bottom.

Note : If the nut S is tightened over the point where the front end of the AC head arm comes to the bottom, the front end goes up in reverse.

(6) Turn the nut S 3/4 of a turn counter-clockwise.
(7) Attach the lead wire holder onto the AC head base plate, and bind the lead wires connected to the AC head with the lead wire holder.

Note : When binding the lead wires, give allowance to the lead wires so that no load is applied to the AC head.

(8) Attach the door guide A.
(9) Connect the connector $\boxed{\text{AE}}$ to the connector on the PCB MDA.
(10) Practice adjustment of the AC head as described in Para. 5-4.

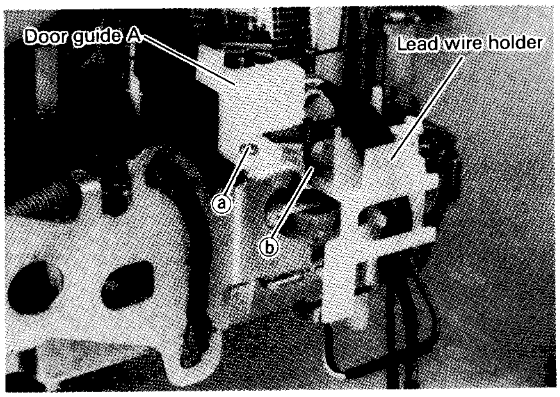


Fig.3 – 13 – 1

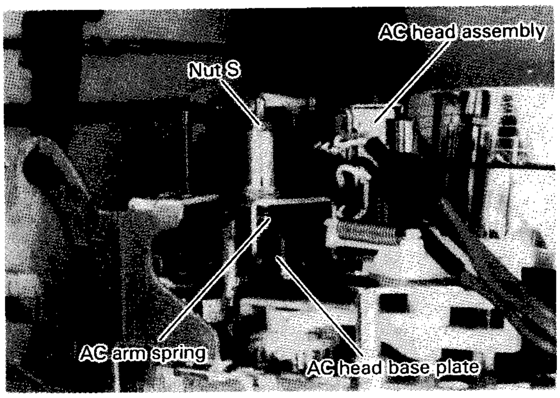


Fig.3 – 13 – 2

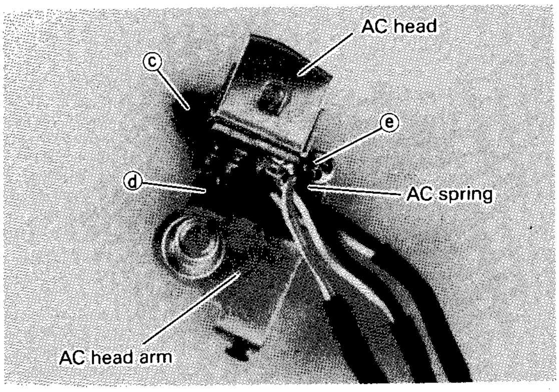


Fig.3 – 13 – 3

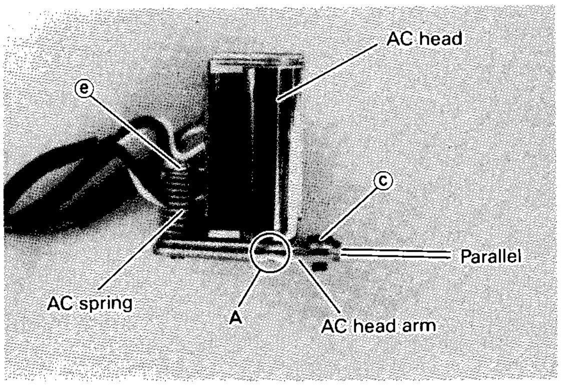


Fig.3 – 13 – 4

4-14 FE head & supply impedance roller replacement

4-14-1 Dismounting

(1) Remove the cassette housing. (See Para. 4-1.)
(2) Take off the gear LA3 from the rear side of the deck. (See Para. 4-2.)
(3) Turn the main cam gear counter-clockwise to keep the tape guide under loading mode.
(4) Disconnect the connector AF on the PCB MDA.
(5) While pressing the upper impedance flange, take off the nylon nut which is fixing the FE head assembly and the supply impedance roller. (See Fig. 3-14.1.)
(6) Take off the upper impedance flange, impedance roller, impedance sleeve and the lower impedance flange.
(7) Take off the FE spring, IMP washer, and the FE head arm assembly.
(8) Take off the lead wire of the FE head from the lead wire clamper.
(9) Remove the FE head fixing screw and take the FE head off the FE head arm.

4-14-2 Mounting

(1) Attach the FE head to the FE head arm and fix with the fixing screw. (See Fig. 3-14-2.)
(2) With the clamper of the FE head, bind the lead wires of the FE head.
(3) Attach the FE head arm assembly onto the main plate. (See Fig. 3-14-1.)
(4) Attach the IMP washer to the main plate so that the bottom of the IMP washer goes into the positioning hole on the main plate.
(5) Attach the FE spring, lower impedance flange, impedance sleeve, impedance roller and the upper impedance flange, then softly tighten the nylon nut.
(6) Hook one end of the FE spring onto the IMP washer, and the other end onto the FE head arm.
(7) Mount the master plane. (See Para. 3 on Page 46.)
(8) Put a square for height adjustment (supply impedance roller measuring side : S mark) onto the master plane.
(9) Slide the height measuring part of the square to the edge of the lower impedance flange, and make sure that flange height is lower than A point of the square (higher one of measuring parts) and is higher than B point (lower one of measuring parts).
(10) If the result of the checking isn't satisfactory, adjust height by turning the nylon nut.
(11) Turn the main cam gear clockwise to switch the tape guide assembly to unloading mode.
(12) Attach the gear LA3 from the rear side of the deck.
(13) Attach the cassette housing.
(14) Connect the connector AF to the PCB MDA and bind the lead wires with the clamper.

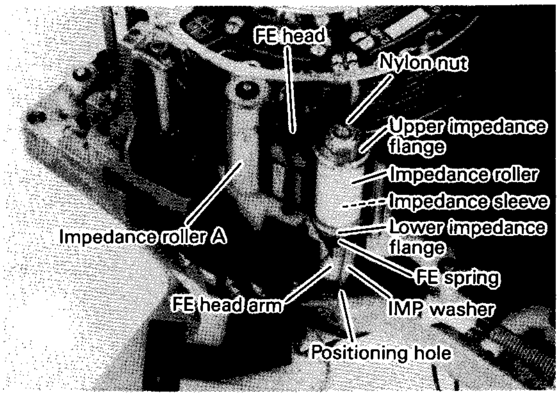

FE head
Nylon nut
Upper impedance flange
Impedance roller
Impedance sleeve
Lower impedance flange
Impedance roller A
FE spring
FE head arm
IMP washer
Positioning hole

Fig.3 – 14 – 1

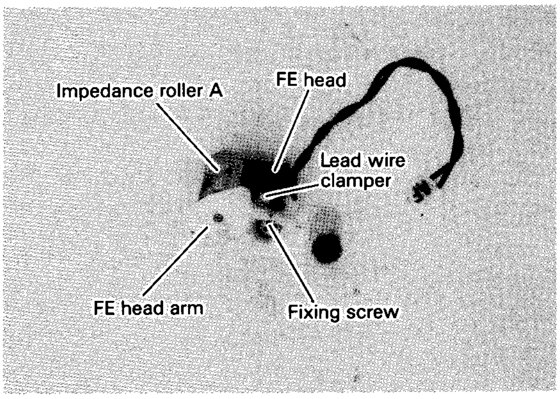

Impedance roller A
FE head
Lead wire clamper
FE head arm
Fixing screw

Fig.3 – 14 – 2

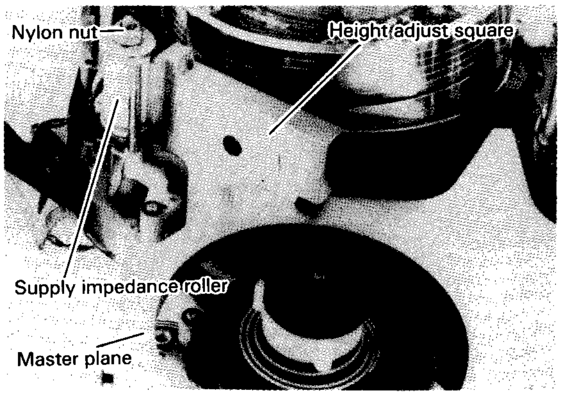

Nylon nut
Height adjust square
Supply impedance roller
Master plane

Fig.3 – 14 – 3

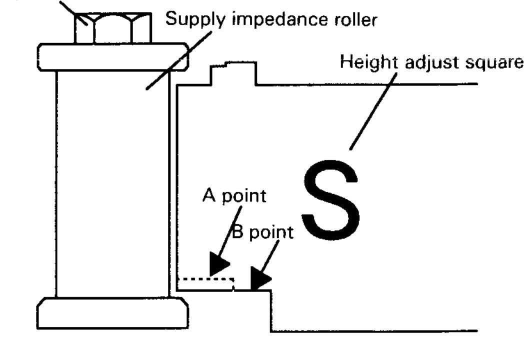

Nylon nut
Supply impedance roller
Height adjust square
A point
B point
S

Fig.3 – 14 – 4

4-15 Slant arm replacement

4-15-1 Dismounting

(1) Remove the cassette housing. (See Para. 4-1.)
(2) Take off the pinch roller cap and the pinch roller. (See 4-9.)
(3) Take off the cut washer shown in Fig. 3-15-1, and remove the set arm LU, set arm SU and the spring AS.
(4) Disconnect the connector AE on the PCB MDA.
(5) Remove three fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-15-1), and take the AC plate assembly from the main plate .
(6) Take off the set arm SL and LL. (See Fig. 3-15-2.)
(7) Remove the cut washer for fixing the slant arm. (See Fig. 3-15-2.)
(8) Turn the cam gear SS counter-clockwise as shown in Fig. 3-15-3 and move the slant arm a little.
(9) Hold up the slant arm to take off the shaft.

4-15-2 Mounting

(1) Attach the slant arm to the shaft so that the slant arm gear and cam gear SS are positioned each other as illustrated in Fig. 3-15-3, then fix with the cut washer.
(2) Turn the cam gear SS clockwise to the point where the slant arm stops.
(3) Attach the set arm LL and SL to the shaft as shown in Fig. 3-15-2.
(4) Attach the AC plate assembly to the main plate, and fix with three fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-15-1).
(5) Attach the set arm SU and LU to the shaft, fix them with the cut washer, and attach the spring AS to the set arm SU and LU. (See Fig. 3-15-4.)
(6) Attach the pinch roller and the pinch roller cap.
(7) Connect the connector AE on the PCB MDA.
(8) Mount the cassette housing.

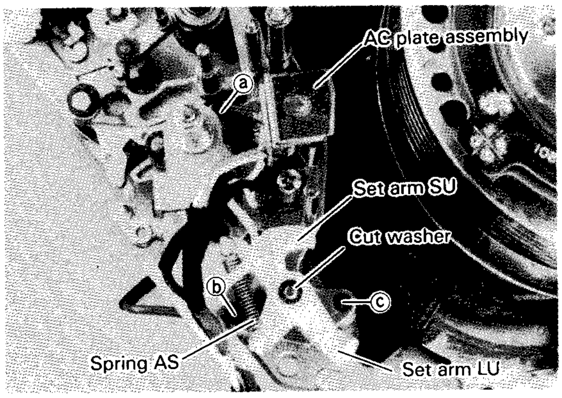

AC plate assembly
ⓐ
Set arm SU
Cut washer
ⓑ
ⓒ
Spring AS
Set arm LU

Fig.3 − 15 − 1

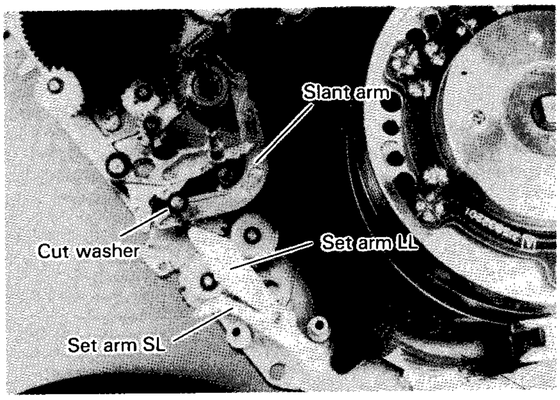

Slant arm
Cut washer
Set arm LL
Set arm SL

Fig.3 − 15 − 2

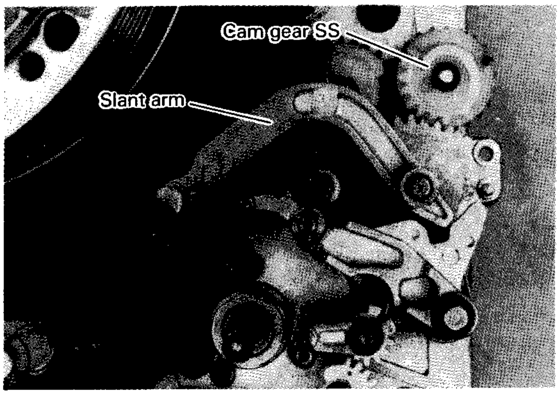

Cam gear SS
Slant arm

Fig.3 − 15 − 3

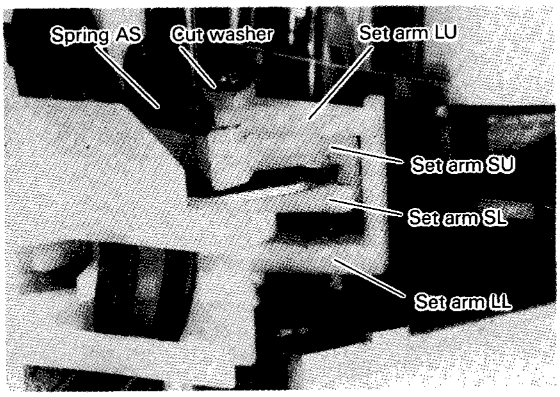

Spring AS
Cut washer
Set arm LU
Set arm SU
Set arm SL
Set arm LL

Fig.3 − 15 − 4

4-16 Takeup guide arm replacement

4-16-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the cut washer which is fixing the Takeup guide arm. (See Fig. 3-16-1.)
(3) While pressing the spring RP, hold the Takeup guide arm upward to take it off the main plate.

4-16-2 Mounting

(1) Attach the Takeup guide arm to the main plate so that the Takeup guide arm, Takeup guide gear, and spring RP are positioned relatively as shown in Fig. 3-16-2, then fix with the cut washer.
(2) Mount the cassette housing

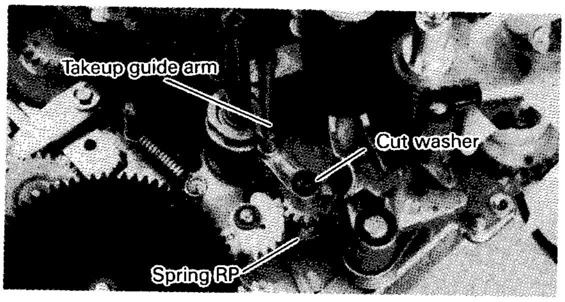

Takeup guide arm
Cut washer
Spring RP

Fig.3 − 16 − 1

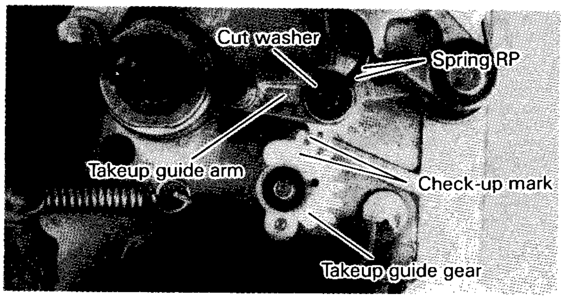

Cut washer
Spring RP
Takeup guide arm
Check-up mark
Takeup guide gear

Fig.3 − 16 − 2

4-17 Takeup guide pole replacement

4-17-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the gear LA3 from the rear side of the deck.
(3) Turn the main cam gear counter-clockwise to switch the tape guide to loading mode.
(4) Take off the nut S which is fixing the Takeup guide pole.
(5) Take off the guide poll upper flange and the guide pole from the shaft.

4-17-2 Mounting

(1) Attach the guide pole and the guide pole upper flange to the shaft and fix with the nut S.
(2) Mount the master plane.
(3) Place the height adjusting square (Takeup guide pole measuring side: T mark) on the master plane.
(4) Slide the height measuring part of the square to the edge of the guide pole lower flange, and make sure that flange height is lower than A point of the square (higher one of measuring parts) and higher than B point (lower one of measuring parts).
(5) If result of the check isn't satisfacrory, adjust the height by turning the nut S.
(6) Apply thread-lock to the nut S.
(7) Turn the main cam gear clockwise to change the tape guide to unloading mode.
(8) Attach the gear LA3 from the rear side of the deck.
(9) Mount the cassette housing.

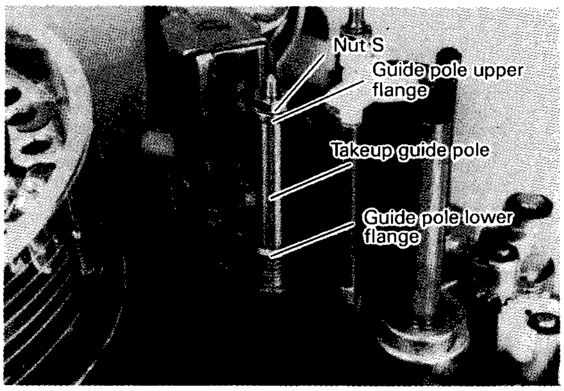

Nut S
Guide pole upper flange
Takeup guide pole
Guide pole lower flange

Fig.3 − 17 − 1

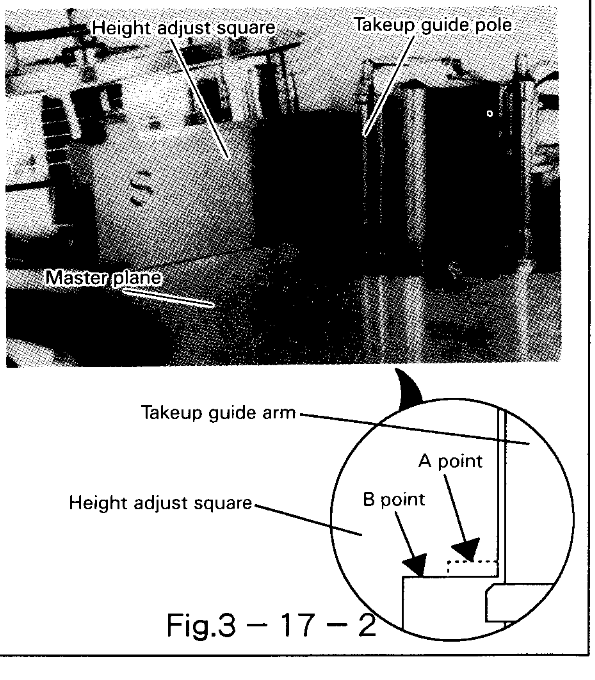

Height adjust square
Takeup guide pole
Master plane
Takeup guide arm
A point
Height adjust square
B point

Fig.3 − 17 − 2

4-18 Supply guide roller replacement

4-18-1 Dismounting

1. Take off the clamp of the lead wires connected to the FE head. (See Fig. 3-18-1.)
2. Remove the tape end sensor fixing screw, and take the tape end sensor off the cassette housing carefully so that the FPC cable may not be damaged.
3. Keep the cassette housing under eject mode.
4. Turn the tension arm assembly clockwise a little, and slacken the set screw to the degree that the guide roller proper turns easily.
5. Turn the guide roller counter-clockwise to tape it off the supply tape guide.

4-18-2 Mounting

1. Attach the guide roller to the supply take guide, turn the roller clockwise to tighten a little, then turn 1-2/3 of a turn counter-clockwise.
2. Turn the tension arm assembly clockwise a little and temporarily fix the guide roller lightly with the set screw.
3. Attach the tape end sensor to the cassette housing and fix with the fixing screw.
4. Bind the lead wires of the FE head with the clamper for the lead wires of the tape end sensor.
5. Adjust height of the guide roller as described in Para. 5-3.

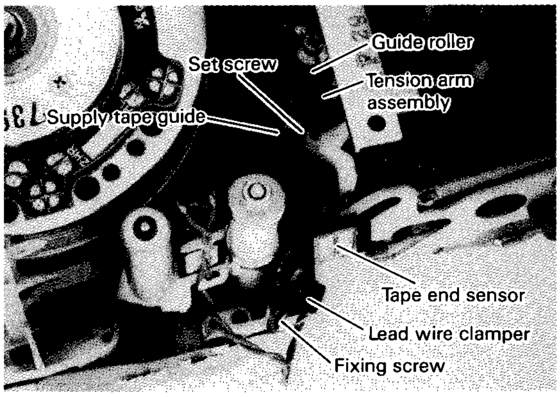


Fig.3 − 18 − 1

4-19 Takeup guide roller replacement

4-19-1 Dismounting

1. Remove the cassette housing.
2. Take off the gear LA3 from the rear side of the deck.
3. Move the takeup tape guide to loading direction by about 1cm by turning the main cam gear counter-clockwise.
4. Slacken the set screw to the degree where the guide roller proper turns easily.
5. Turn the guide roller counter-clockwise to take if off the Takeup tape guide.

4-19-2 Mounting

1. Attach the guide roller to the Takeup tape guide, tighten a little by turning clockwise, then turn 1-2/3 of a turn counter-clockwise.
2. Fix the guide roller lightly with the set screw.
3. Turn the main cam gear clockwise to switch the tape guide to unloading mode.
4. Attach the gear LA3 from the rear side of the deck.
5. Mount the cassette housing.
6. Adjust guide roller height as described in Para. 5-3.

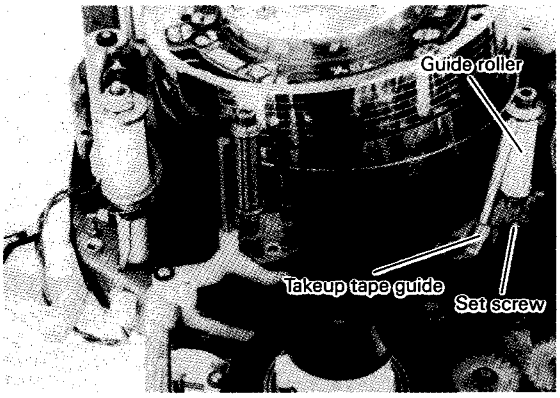


Fig.3 − 19 − 1

4-20 Supply & Takeup tape guide replacement

4-20-1 Dismounting

(1) Remove the cassette housing.
(2) Take off the drum assembly.
(3) Remove the gear LA3 from the rear side of the deck.
(4) Turn the main cam gear counter-clockwise to switch the supply & Takeup tape guide to loading mode.
(5) Take the LED holder from the guide slider. (See Fig. 3-20-1.)
(6) Remove six screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ, ⓕ: Fig. 3-20-1) which are fixing the guide slider.
(7) Take off the cut washer which is connecting the Takeup tape guide with the ring unit TA.
(8) Remove the guide slider from the main plate while turning the FE head arm assembly counter-clockwise and the tension arm assembly clockwise.
(9) Turn the gear LA5 counter-clockwise to the degree that the supply & Takeup tape guide is disengaged from the tape guide stopper. (See Fig. 3-20-2.)
(10) Take off the supply & Takeup tape guide from the ring unit SA and TA.

4-20-2 Mounting

(1) Check and adjust outside dimensions of the supply & Takeup tape guide to the dimensions shown in Fig. 3-20-3.
(2) Attach the supply & Takeup tape guide to the ring unit SA and TA.
(3) Turn the gear LA5 clockwise and set the supply & Takeup tape guide at the loading position of the tape guide stopper.
(4) With a thin screw driver, hold up the ring unit TA and fix the takeup tape guide with the cut washer.
(5) Attach the guide slider to the main plate while turning the FE head arm assembly counter-clockwise and the tension arm assembly clockwise, and fix with 6 fixing screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ, ⓕ: Fig. 3-20-1).
(6) Attach the LED holder to the guide slider.
(7) Turn the main cam gear clockwise to set the supply & Takeup tape guide to unloading mode.
(8) Attach the gear LA from the rear side of the deck.
(9) Attach the drum assembly.
(10) Attach the brush.
(11) Attach the PCB MDA.
(12) Mount the cassette housing.

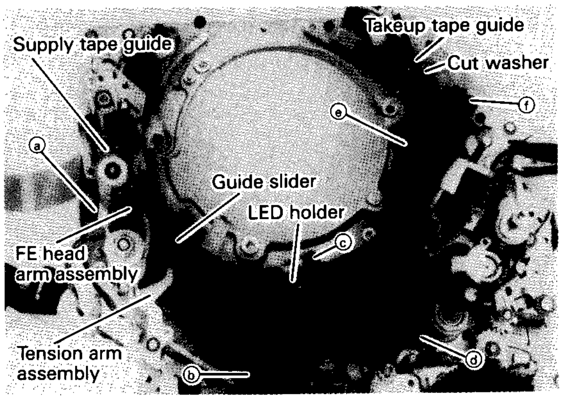

Supply tape guide
Takeup tape guide
Cut washer
ⓕ
ⓔ
ⓐ
Guide slider
LED holder
ⓒ
FE head arm assembly
Tension arm assembly
ⓑ
ⓓ

Fig.3 − 20 − 1

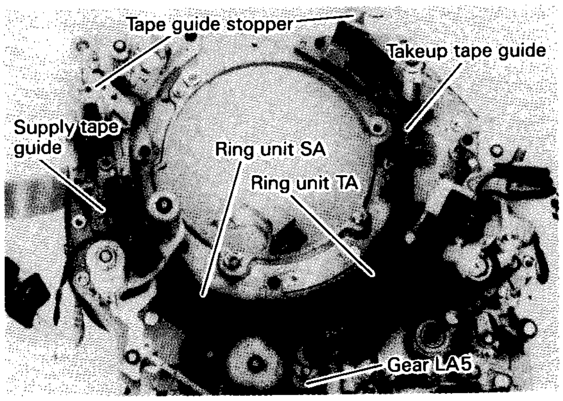

Tape guide stopper
Takeup tape guide
Supply tape guide
Ring unit SA
Ring unit TA
Gear LA5

Fig.3 − 20 − 2

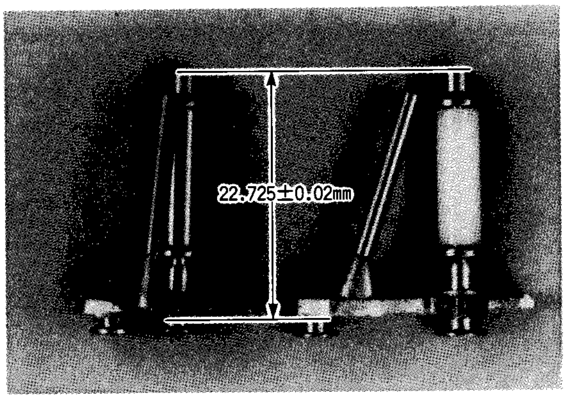

22.725±0.02mm

Fig.3 − 20 − 3

4-21 Positioning and mounting procedure of peripheral parts of main cam gear (Front side)

4-21-1 Attaching cam plate assembly and gear LA7

(1) Attach the cam plate assembly to the main plate and fix with five fixing screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ: Fig. 3-21-1).

(2) Attach the gear LA7 to the main plate and fix with the cut washer.

4-21-2 Attaching the holder RB and ring unit TA

(1) Attach the ring unit TA to the holder RB, attach the holder RB to the main plate so that three positioning pins of the holder RB fit the positioning holes of the main plate, yet the check-up marks of the ring unit TA and the gear LA fit the check-up marks on the main plate, then fix with 4 fixing screws (ⓕ, ⓖ, ⓗ, ⓘ).

4-21-3 Attaching the holder RA

(1) Attach the holder RA to the main plate so that 3 positioning pins of the holder RA fit the positioning holes on the main plate, then fix with 3 fixing screws (ⓙ, ⓚ, ⓛ). (See Fig. 3-21-2.)

4-21-4 Attaching the gear LA5 and holder RC

(1) Fit the check-up marks of the gear LA4.

(2) While fixing the gear LA4, attach the gear LA5 to the main plate so that the check-up marks are fitted, then fix with the holder RC and the fixing screw.

4-21-5 Attaching the ring unit SA, ring roller and ring gear

(1) Slide the ring unit TA counter-clockwise to the extent that it doesn't go off the gear LA7. (See Fig. 3-21-3.)

(2) Attach the ring unit SA onto the holder RB, and fix with the ring roller, ring gear and two cut washers.

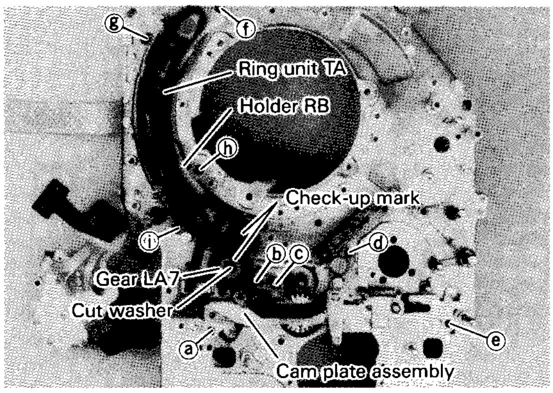

ⓖ
ⓕ
Ring unit TA
Holder RB
ⓗ
Check-up mark
ⓘ
ⓓ
ⓑ ⓒ
Gear LA7
Cut washer
ⓔ
ⓐ
Cam plate assembly

Fig.3 − 21 − 1

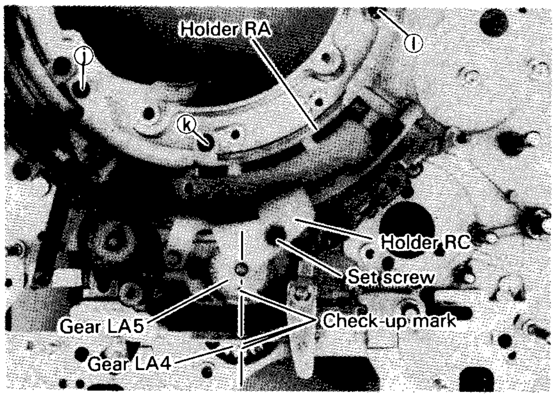

Holder RA
ⓙ
ⓛ
ⓚ
Holder RC
Set screw
Gear LA5
Check-up mark
Gear LA4

Fig.3 − 21 − 2

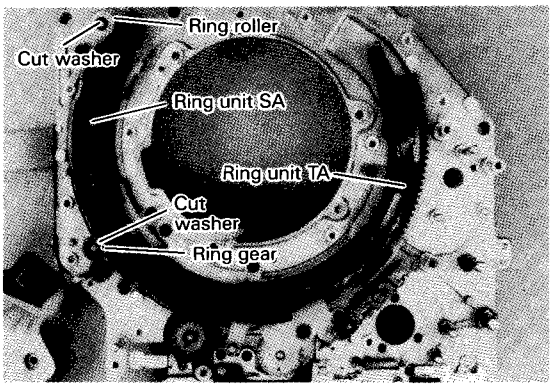

Ring roller
Cut washer
Ring unit SA
Ring unit TA
Cut washer
Ring gear

Fig.3 − 21 − 3

4-21-6 Attaching the gear LA6

(1) Slide the ring unit TA clockwise and the ring unit SA counter-clockwise respectively, and fit check-up mark of each to the check-up mark on the main plate. (See Fig. 3-21-4.)

(2) After making sure that the check-up marks of the gear LA5 and LA7 are matched, attach the gear LA6 to the main plate while fixing the ring unit TA, SA and the gear LA5, and fix with the cut washer.

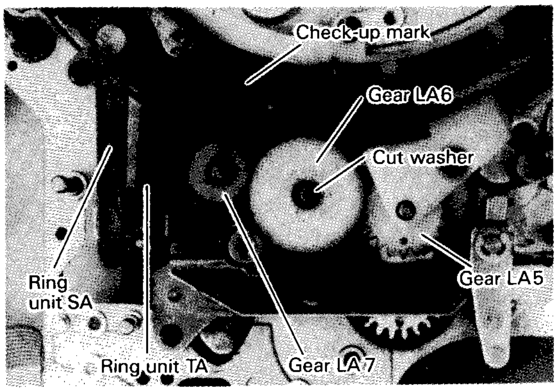

Check-up mark
Gear LA6
Cut washer
Gear LA5
Ring unit SA
Ring unit TA
Gear LA7

Fig.3 − 21 − 4

4-21-7 Attaching the cam gear SL and SS

(1) Attach the cam gear SL and SS to the main plate so that the check-up marks are fitted respectively, then fix with the cut washer. (See Fig. 3-21-5.)

4-21-8 Attaching slant arm

(1) While fixing the cam gear SL and SS so as not to turn, attach the slant arm to the main plate keeping in contact with the left side of the shaft A slightly, then fix with the cut washer.

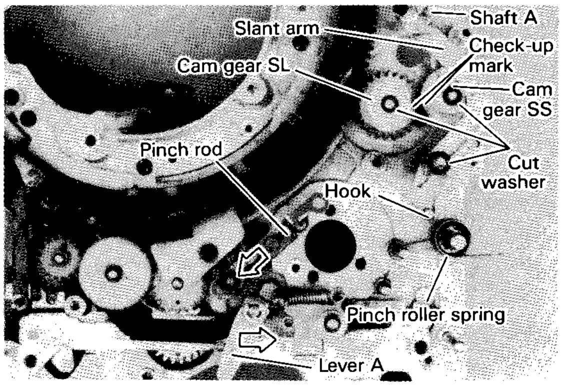

Slant arm
Shaft A
Check-up mark
Cam gear SL
Cam gear SS
Pinch rod
Cut washer
Hook
Pinch roller spring
Lever A

Fig.3 − 21 − 5

4-21-9 Attaching the pinch roller arm assembly

(1) Slide the lever A and the pinch roller in arrow direction. (See Fig. 3-21-5.)
(2) Attach the pinch roller spring so that one end (shorter one) is hooked onto the main plate.
(3) Attach the pinch roller arm assembly to the main plate so that the other end (longer one) of the pinch roller spring is hooked by the pinch roller arm assembly, then fix with the cut washer. (See Fig. 3-21-6.)
(4) Attach the pinch rod to the pinch roller arm assembly, and fix with the cut washer.

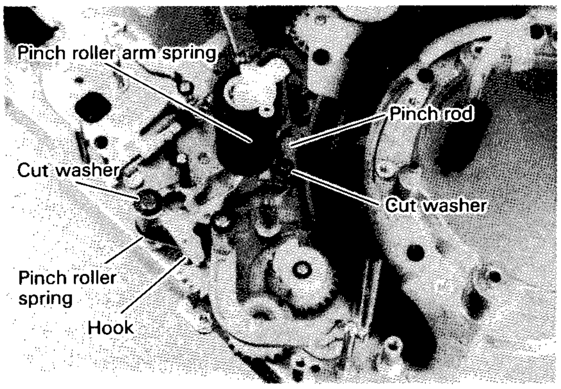

Pinch roller arm spring
Pinch rod
Cut washer
Cut washer
Pinch roller spring
Hook

Fig.3 − 21 − 6

4-21-10 Attaching the Takeup guide arm and Takeup guide gear

(1) Turn the cam gear SS clockwise to the point where the slant arm comes to a stop. (See Fig. 3-21-7.)
(2) Match the check-up marks on the cam plate assembly.
(3) Attach the spring RP to the main plate so that one end (horizontal side) is set on the hook (commonly used for the pinch roller spring) on the main plate. (See Fig. 3-21-8.)
(4) Attach the Takeup guide arm and the Takeup guide gear onto the main plate so that their check-up marks are fitted and the other end of the spring RP (vertical side) is hooked by the notch of the Takeup guide arm, then fix with the cut washer.

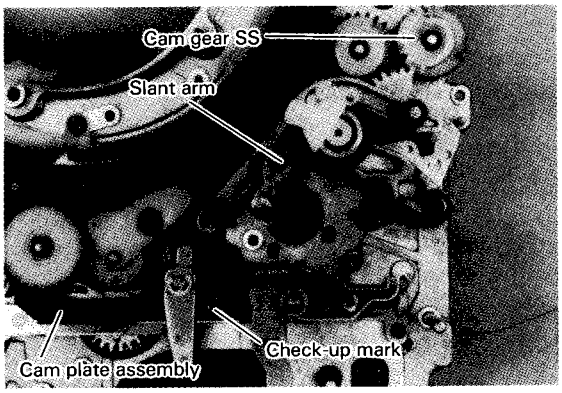

Cam gear SS
Slant arm
Check-up mark
Cam plate assembly

Fig.3 − 21 − 7

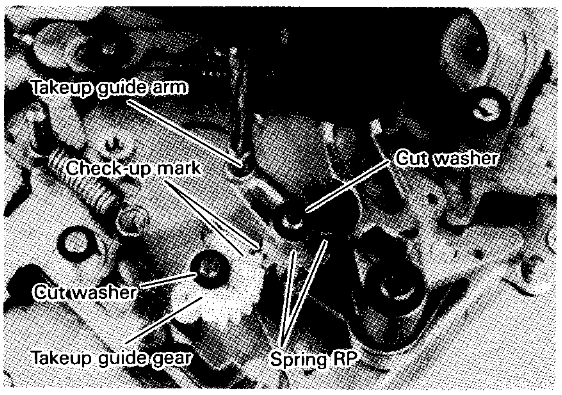

Takeup guide arm
Check-up mark
Cut washer
Cut washer
Takeup guide gear
Spring RP

Fig.3 − 21 − 8

4-21-11 Attaching the supply & Takeup tape guide stopper

(1) Attach the supply tape guide stopper to the main plate so that the positioning hole matches the positioning pin, then fix with two fixing screws (ⓐ, ⓑ). (see Fig. 3-21-9.)

(2) Attach the Takeup tape guide stopper to the main plate so that the positioning hole matches the positioning pin, then fix with two fixing screws (ⓒ, ⓓ).

4-21-12 Attaching the supply & Takeup tape guide assembly

(1) By turning the gear LA5 clockwise, move the ring unit TA and SA to the position where the supply & Takeup tape guide assembly can be attached easily. (See Fig. 3-21-9.)

(2) Attach the supply & Takeup tape guide assembly to respective mounting pins.

(3) Slide the lever A to the right. (This is because the pinch rod connected to the pinch roller arm slides to the side of lever A when the tape guide assembly is set at the loading position.)

(4) Slide the lever B to the right to turn the Takeup guide arm clockwise. (This is because the pinch roller arm turns to the side of Takeup guide arm when the tape guide assembly is set at the loading position.)

(5) Turn the gear LA5 clockwise and set the supply & Takeup tape guide assembly onto respective tape guide stopper.

(6) Hold up the ring unit TA with a fine screw driver and fix the Takeup tape guide with the cut washer.

4-21-13 Attaching the guide slider assembly

(1) Attach the guide slider to the main plate, and fix with 6 fixing screws (ⓐ, ⓑ, ⓒ, ⓓ, ⓔ, ⓕ : Fig. 3-21-10).

(2) Attach the LED holder to the guide slider.

4-21-14 Attaching the set arm LL and SL

(1) Turn the gear LA5 counter-clockwise to change the supply & Takeup tape guide to unloading mode.

(2) Attach the set arm LL and SL to the main plate. (See Fig. 3-21-11.)

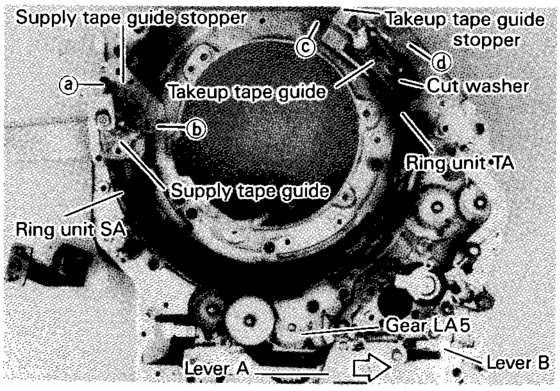

Supply tape guide stopper
ⓒ
Takeup tape guide stopper
ⓓ
ⓐ
Takeup tape guide
Cut washer
ⓑ
Ring unit TA
Supply tape guide
Ring unit SA
Gear LA5
Lever A
Lever B

Fig.3 − 21 − 9

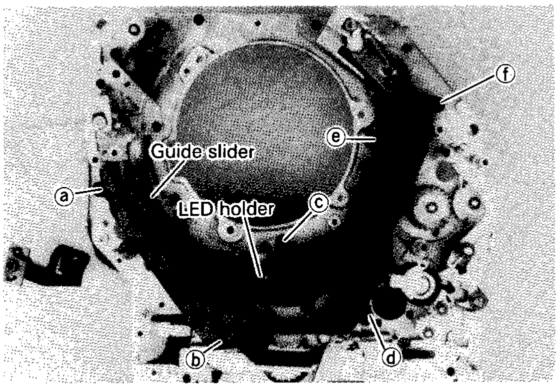

ⓕ
ⓔ
Guide slider
ⓐ
LED holder
ⓒ
ⓑ
ⓓ

Fig.3 − 21 − 10

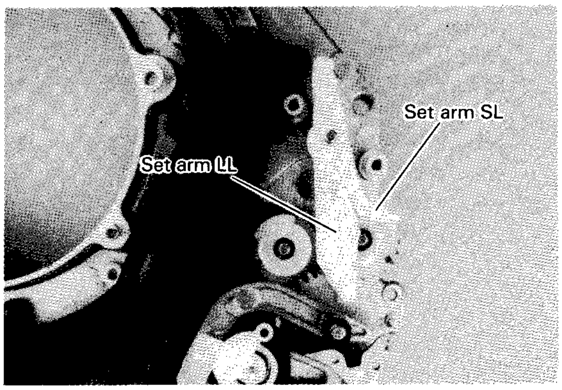

Set arm SL
Set arm LL

Fig.3 − 21 − 11

4-21-15 Attaching AC plate assembly

(1) Turn the gear LA5 clockwise to change the supply & Takeup tape guide to loading mode.

(2) Attach the AC plate assembly to the main plate and fix with 3 fixing screws (ⓐ, ⓑ, ⓒ : Fig. 3-21-12).

Note : Attach the fixing screws in the order of ⓒ, ⓐ, and ⓑ.

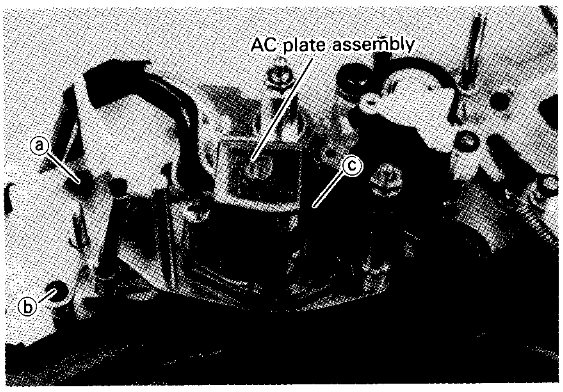

AC plate assembly
ⓐ
ⓒ
ⓑ

Fig.3 − 21 − 12

4-21-16 Attaching set arm SU LU, and spring AS

(1) Attach the set arm SU, LU and the spring AS, then fix with the cut washer. (See Fig. 3-21-13.)

Note : Attach them so that the top end of the set arm SU goes into the notch at the top of the set arm SL.

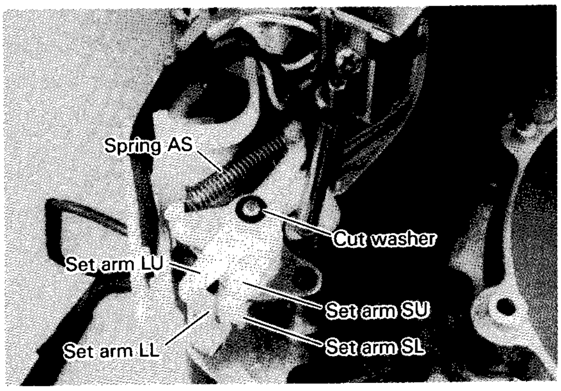

Spring AS
Cut washer
Set arm LU
Set arm SU
Set arm SL
Set arm LL

Fig.3 − 21 − 13

4-21-17 Attaching FE head and supply impedance roller

(1) Attach the FE head arm assembly to the main plate. (See Fig. 3-21-14.)

(2) Attach the IMP washer to the main pate in a manner that the bottom of the IMP washer goes into the positioning hole on the main plate.

(3) Attach the FE spring, lower impedance flange, impedance sleeve, impedance roller and the upper impedance flange, and tighten the nylon nut softly.

(4) Set one end of the FE spring onto the IMP washer and the other end onto the FE head arm.

(5) Mount the master plane.

(6) Put a square for height measurement (supply impedance roller measuring side : S mark) onto the master plane. (See Fig. 3-14-3, Page 55.)

(7) Slide the height measuring portion of the square to the edge of the lower impedance flange, and make sure that flange height is lower than A point of the square (higher one of the measuring parts) and higher than B point (lower one of the measuring parts) (See Fig. 3-21-15.)

(8) If the result of above check isn't favorable, adjust the height by turning the nylon nut.

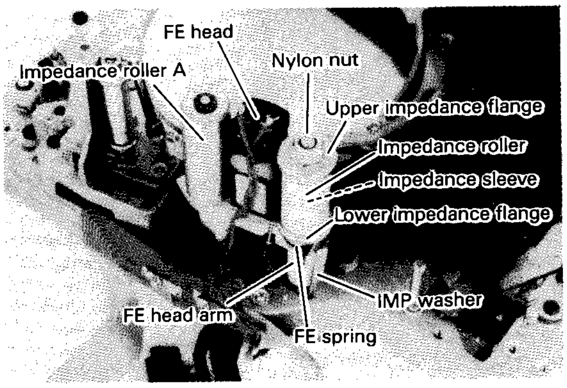

FE head
Impedance roller A
Nylon nut
Upper impedance flange
Impedance roller
Impedance sleeve
Lower impedance flange
IMP washer
FE head arm
FE spring

Fig.3 − 21 − 14

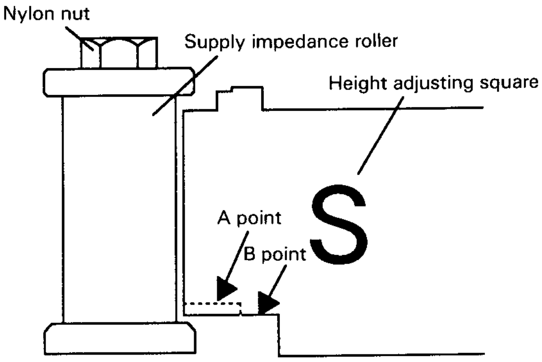

Nylon nut
Supply impedance roller
Height adjusting square
A point
B point
S

Fig.3 − 21 − 15

4-21-18 Attaching tension arm assembly

(1) Attach the thrust washer to the tension arm assembly (arm side) mounting shaft. (See Fig. 3-21-16.)

(2) Attach the tension arm assembly to the main plate so that the positioning hole of the tension arm assembly (adjusting side) matches the positioning pin of the main plate, then fix with the fixing screw.

4-21-19 Attaching brake S

(1) Make sure that braking performance isn't lowered by any oil deposited onto the face of the brake S which comes in contact with the reel disk.

(2) Attach the brake S onto the main plate and fix with the cut washer. (See Fig. 3-21-16.)

4-21-20 Attaching tension spring and spring S

(1) Attach the tension spring to both ends of the tension arm assembly (arm side and adjusting side). (See Fig. 3-21-16.)

(2) Attach the spring S to the brake S and the tension arm assembly (adjusting side).

4-21-21 Attaching supply reel disk

(1) Attach the thrust washer to the reel disk mounting shaft. (See Fig. 3-21-16.)

(2) Move the brake S in arrow direction and turn the tension arm clockwise by about 90°.

(3) Attach the reel disk to the reel disk mounting shaft.

(4) Make sure that the reel disk turns smoothly while the brake S and the tension arm are being moved.

(5) Mount the master plane.

(6) Place the square for height adjustment (reel disk measuring side : REEL-M mark) onto the master plane.

(7) Slide the height measuring part of the square to the edge of the reel disk, and make sure that the reel disk turns smoothly at A point of the square (higher one of the measuring parts) and doesn't turn at B point (lower one of the measuring parts). Check it in two directions of X-axis and Y-axis.

(8) If the result of the above check isn't favorable, adjust by changing number of the thrust washers (Parts No. 552C001020) attached under the reel disk.

(9) Fix the reel disk with the cut washer.

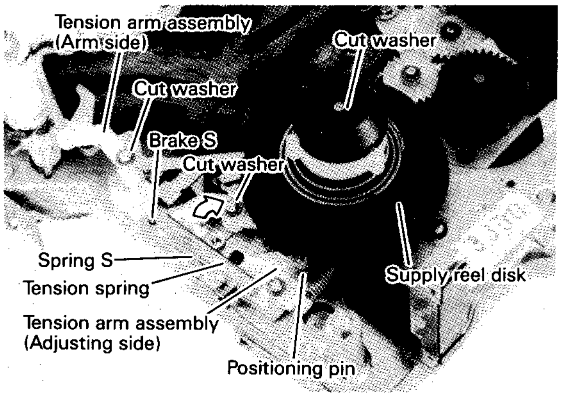

Tension arm assembly
(Arm side)
Cut washer
Cut washer
Brake S
Cut washer
Spring S
Tension spring
Tension arm assembly
(Adjusting side)
Positioning pin
Supply reel disk

Fig.3 − 21 − 16

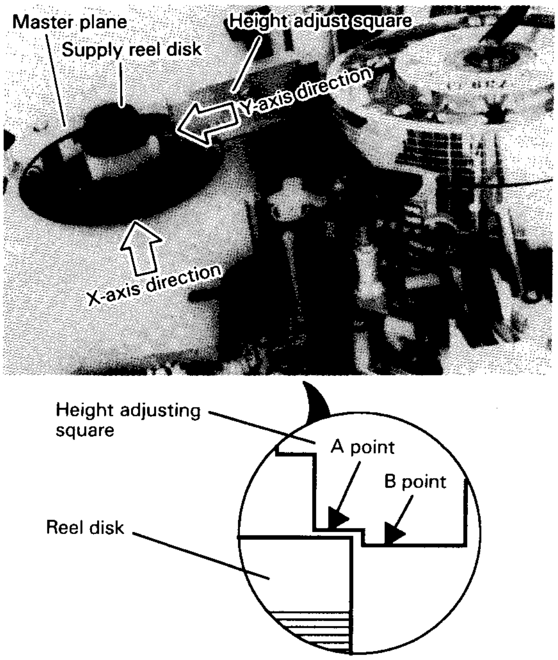

Master plane
Supply reel disk
Height adjust square
Y-axis direction
X-axis direction
Height adjusting square
A point
B point
Reel disk

Fig.3 − 21 − 17

4-21-22 Attaching reel gear lock unit

(1) Move the arm in arrow direction a little. (See Fig. 3-21-8.) This is to prevent the small gear of the reel gear lock unit from coming in contact with the stopper when it is connected to the arm.

(2) Attach the reel gear lock unit to the main plate in a manner that the bottom of the small gear mounting shaft of the reel gear lock unit goes into the notch on the arm of the cam plate assembly, then fix with the fixing screw.

4-21-23 Attaching reel gear A

(1) Attach the thrust washer to the reel gear A mounting shaft. (See Fig. 3-21-19.)

(2) Move part ⓐ of the cam plate assembly in arrow direction a little, attach the reel gear A onto the main plate so that the lower side gear of the reel gear A is meshed with the small gear of the reel lock unit, then fix with the cut washer.

4-21-24 Attaching gear TU1-A

(1) Attach the thrust washer to the gear TU1-A mounting shaft. (See Fig. 3-21-19.)

(2) Attach the gear TU1-A onto the main plate in a manner that the gear of the gear TU1-A is meshed with the gear of the reel gear A, then fix with the cut washer.

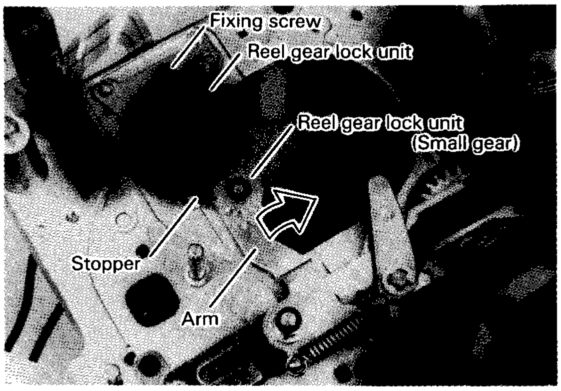

Fixing screw
Reel gear lock unit
Reel gear lock unit (Small gear)
Stopper
Arm

Fig.3 – 21 – 18

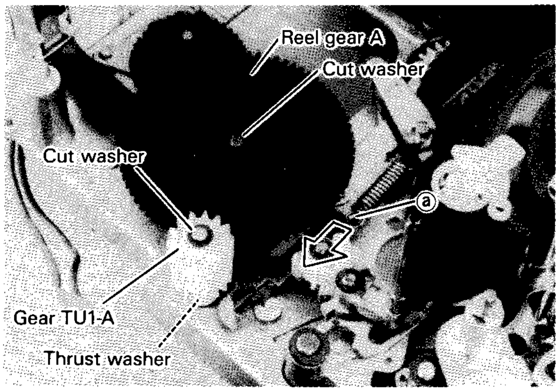

Reel gear A
Cut washer
Cut washer
ⓐ
Gear TU1-A
Thrust washer

Fig.3 – 21 – 19

4-22 Positioning and attaching procedure of peripheral parts of main cam gear (rear side)

4-22-1 Attaching main cam gear and gear LA2

(1) Turn the gear LA5 counter-clockwise to change the supply & Takeup tape guide to unloading mode. (See Fig. 3-22-1.)

(2) Slide the lever A to left and match the check-up mark of the cam plate assembly.

(3) Attach the main cam gear onto the main plate so that the check-up mark on the main cam gear matches the check-up mark on the main plate, then fix with the cut washer. (See Fig. 3-22-2.)

(4) Attach the gear LA2 onto the main plate, and fix with the cut washer.

4-22-2 Attaching switch lever A and switch spring A

(1) Attach the switch lever A onto the main plate.

(2) Attach the switch spring A to the switch lever A and the PCB sensor (reel gear A rotary sensor).

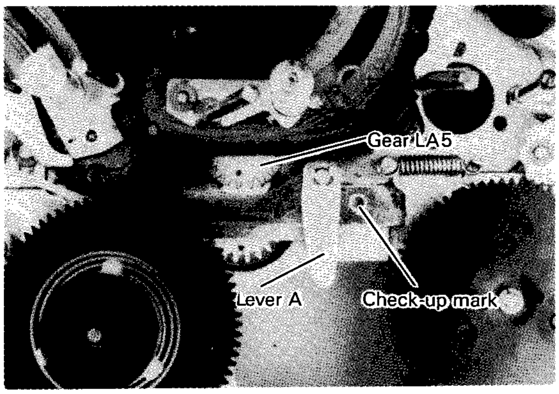

Gear LA5
Lever A
Check-up mark

Fig.3 – 22 – 1

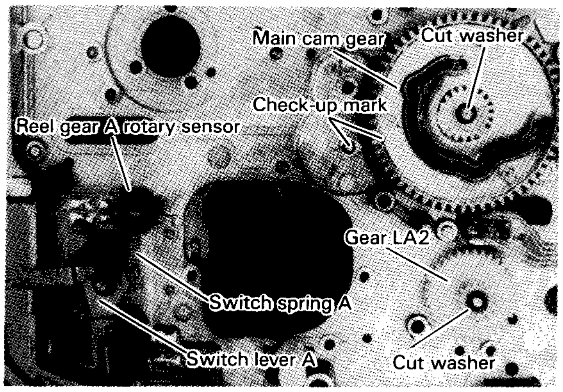

Main cam gear
Cut washer
Check-up mark
Reel gear A rotary sensor
Gear LA2
Switch spring A
Switch lever A
Cut washer

Fig.3 – 22 – 2

4-22-3 Attaching eject lever assembly

(1) Insert the mounting shaft of the eject lever assembly into the mounting hole on the main plate a little. (See Fig. 3-22-3.)

(2) Adjust position of the pin of the eject lever assembly so that the pin goes into the groove of the main cam gear.

(3) Adjust position of the left side mounting hole of the eject lever assembly, attach the assembly to the main plate, then fix with the cut washer.

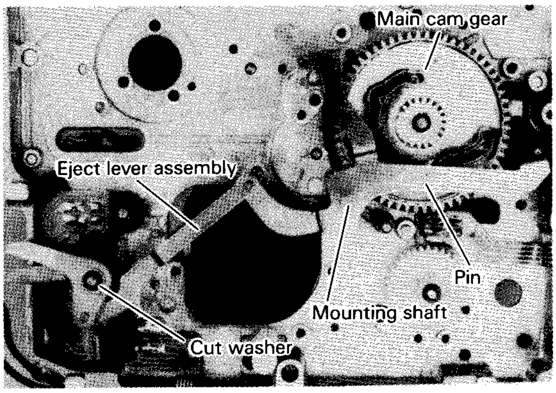

Main cam gear
Eject lever assembly
Pin
Mounting shaft
Cut washer

Fig.3 − 22 − 3

4-22-4 Attaching reel idler

(1) Attach the reel idler onto the main plate in a manner that two positioning holes match two positioning pins of the main plate, then fix temporarily with two fixing screws (ⓐ, ⓑ : Fig. 3-22-4).

4-22-5 Attaching loading motor assembly

(1) Attach the loading motor assembly onto the main plate so that the gear LA1 mounting shaft attached to the loading motor assembly goes into the mounting hole on the main plate.

(2) Fix the loading motor assembly with the fixing screw ⓒ (Fig. 3-22-4) and the cut washer (see Fig. 3-22-5).

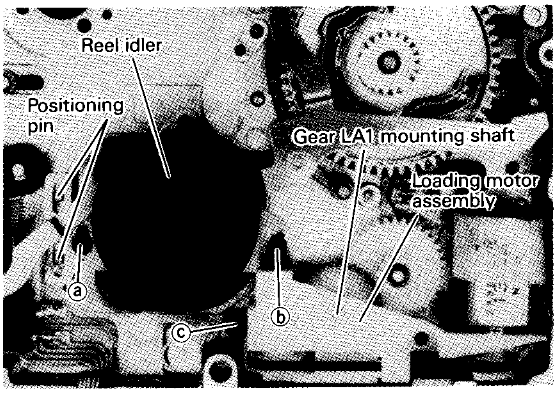

Reel idler
Positioning pin
Gear LA1 mounting shaft
Loading motor assembly
ⓐ
ⓑ
ⓒ

Fig.3 − 22 − 4

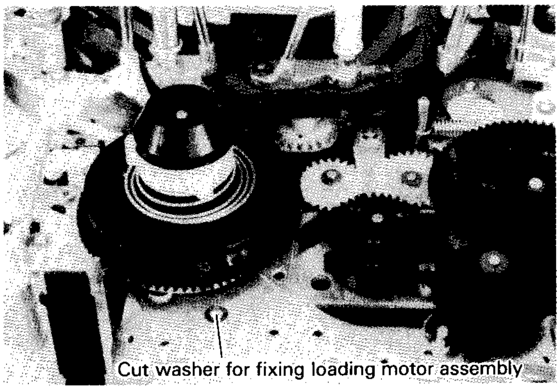

Cut washer for fixing loading motor assembly

Fig.3 − 22 − 5

4-22-6 Attaching gear LA3

(1) Attach the gear LA3 to the main plate and fix with the cut washer (Fig. 3-22-6).

Note : It can be attached easily by moving the main cam gear a little.

4-22-7 Attaching capstan motor

(1) Attach the capstan motor to the main plate from the rear side of the plate. (See fig. 3-22-6.)

(2) From the front side of the main plate, fix the capstan motor with 3 fixing screws (ⓒ, ⓓ, ⓔ : Fig. 3-22-7) while holding the capstan motor firmly.

4-22-8 Attaching SYNC belt

(1) Attach the SYNC belt to the capstan motor and the reel idler. (See Fig. 3-22-6.)

(2) Slide the reel idler in arrow direction to stop and fix with two fixing screws (ⓐ, ⓑ : Fig. 3-22-6).

4-22-9 Attaching capstan brake

(1) Attach the capstan brake to the main plate so that the positioning pin matches the positioning hole on the main plate, and fix with the fixing screw ⓐ (Fig. 3-22-8).

4-22-10 Attaching mode switch

(1) Match the check-up mark of the mode switch. (See Fig. 3-22-9.)

(2) Perform fine adjustment by turning the gear of the mode switch to the following conducting state between the common terminal of the mode switch and each terminal while checking with a tester.

Note : Use a tester of ×1000 range.
P0 ..... Conducting
P1 ..... Conducting
P2 ..... Open
P3 ..... Conducting

(3) Attach the mode switch onto the main plate so that the gear is geared with the gear (centre side) of the main cam gear while paying attention so as not turn the mode switch gear, and fix with two fixing screws (ⓑ, ⓒ : Fig. 3-22-8)

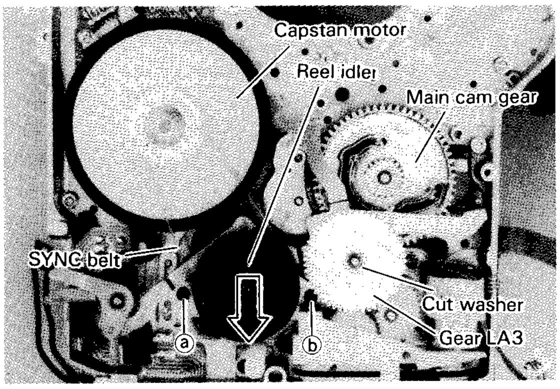

Capstan motor
Reel idler
Main cam gear
SYNC belt
Cut washer
Gear LA3
ⓐ
ⓑ

Fig.3 – 22 – 6

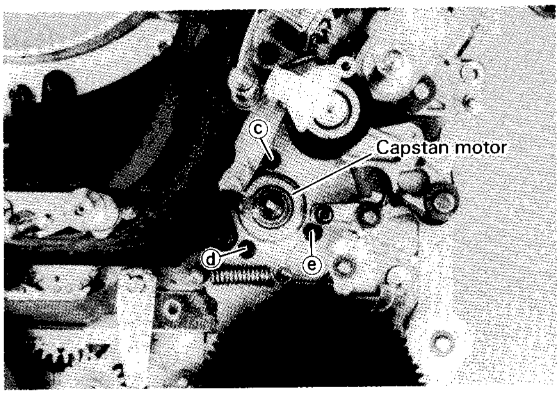

ⓒ
Capstan motor
ⓓ
ⓔ

Fig.3 – 22 – 7

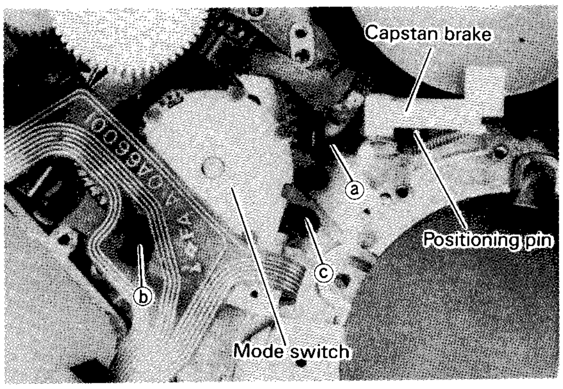

Capstan brake
ⓐ
Positioning pin
ⓒ
ⓑ
Mode switch

Fig.3 – 22 – 8

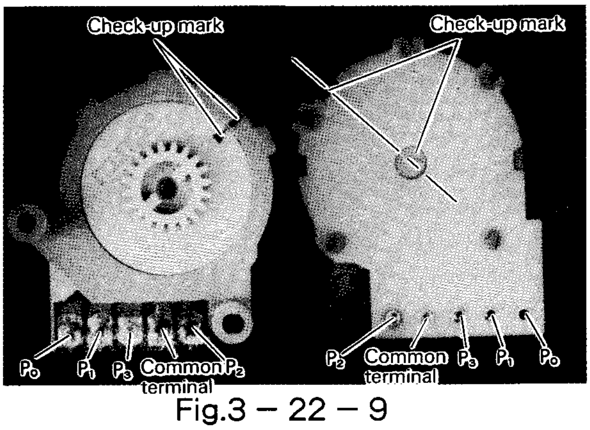

Check-up mark
Check-up mark
P_0
P_1
P_3
Common terminal
P_2
P_2
Common terminal
P_3
P_1
P_0

Fig.3 – 22 – 9

4-22-11 Attaching cam gear hold plate and eject lever hold plate

(1) Match the positioning pin of the cam gear hold plate to the positioning hole on the main plate.

(2) Turn the cam gear hold plate counter-clockwise around the positioning pin to attach onto the main plate, then fix with the fixing screw ⓐ (Fig. 3-22-10).

(3) Attach the eject lever hold plate onto the main plate, and fix with the fixing screw ⓑ (Fig. 3-22-10).

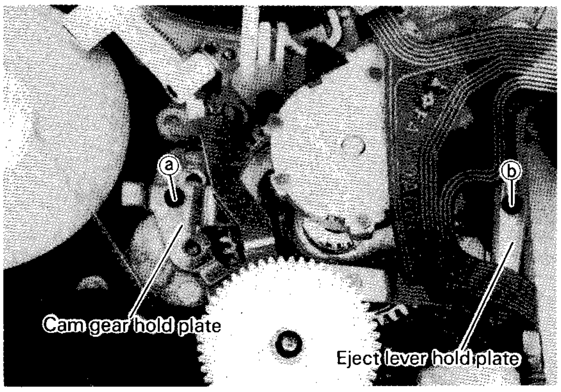


Fig.3 − 22 − 10

5. ADJUSTMENT

Note : Refrain from operating the eject lever while keeping a cassette tape inserted into the cassette housing and keeping the deck under loading mode.

5-1 rear tension & tension pole position adjustment

Before starting adjustment, keep a self-recording tape for a couple of minutes to warm up the reel disk and the travel system.

(1) Turn to playrear mode.
(2) Make sure that the left side edge of the tension lever position check unit is within the range of the position check mark on the guide slider.
(3) If the result of the above checking isn't favourable, adjust position by turning the tension pole position adjust screw.
(4) Set a rear tension measuring jig and change the mode to playrear.
(5) Make sure that the left side edge of the tension lever position check unit is within the range of the position check mark on the guide slider.
(6) After making sure that the tape runs in stable condition, read the indication on the rear tension measuring jig and make sure that the reading is within the specified range, 27±3g-cm.
(7) If the reading is outside the specified range, change the tension spring and check again.
(8) Make sure that the tape runs under stable condition and indication on the rear tension measuring jig varies only within the range of 4g-cm.
(9) If rear tension varies beyond the range of 4g-cm, the cause is deflection or flaw on the reel desk or others. Check and repair the defective unit.
(10) After completing adjustment, apply thread-lock to the tension pole position adjust screw.

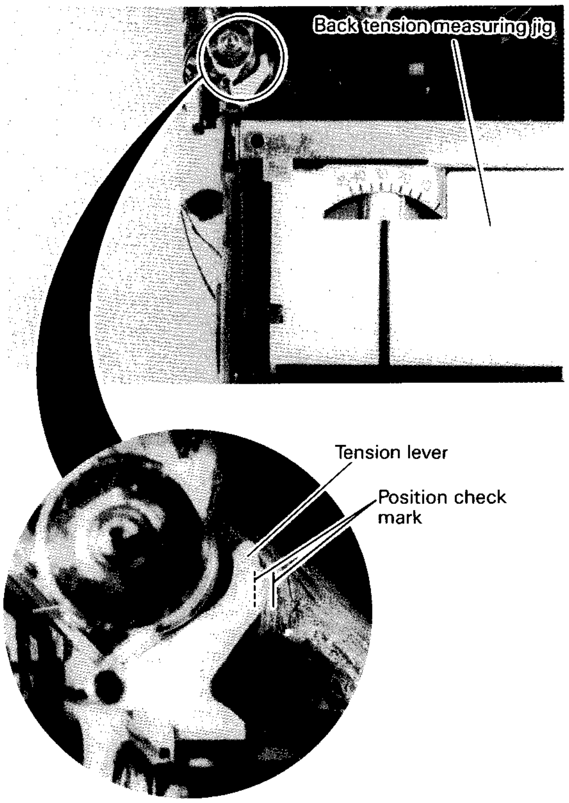


Fig.4 − 1 − 1

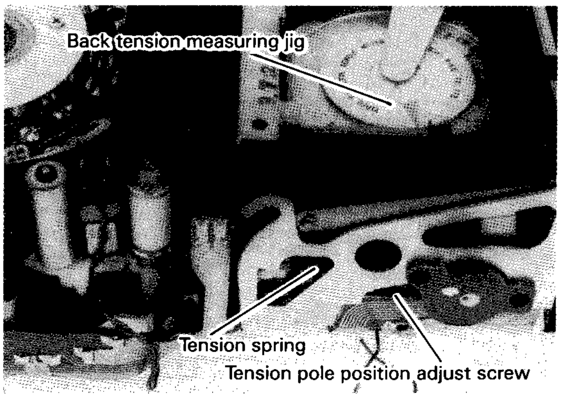

Back tension measuring jig
Tension spring
Tension pole position adjust screw

Fig.4 − 1 − 2

5-2 Tape run system and deck motion checking and adjustment

Note : Please clean the deck prior to this adjustment.

5-2-1 Checking tape loading motion

(1) Make sure that the lower end of the tape is not damaged or by the head tip, when loading and unloading are repeated at the tape read unit.

5-2-2 Playrear mode check

(1) Supply impedance roller
There shall be a gap allowed between the tape and the upper flange and no gap between the tape and the lower flange, and the tape shall be free from any folding or crease.

(2) Supply guide roller
There shall be a gap allowed between the tape and the upper flange and no gap between the tape and the upper flange, yet the tape must be free from any folding or crease.

(3) Around tape lead inlet
The tape lead unit shall be free from any riding on, gap, folding, or crease of the tape, and the tape shall not be catched by the head tip. If the tape runs above the drum lead path, a "pit-a-pat" sound is generated because the video head catches the tape edge.

(4) Around tape lead outlet
The tape lead unit shall be free from any riding on, gap, folding or crease of the tape.

(5) Takeup guide roller
There shall be a gap between the tape and the lower flange, no gap between the tape and the upper flange, yet the tape shall be free from any folding or crease.

(6) Takeup guide pole
There shall be a gap between the tape and the upper flange, no gap between the tape and the lower flange, yet the tape shall be free from any folding or crease.

(7) Takeup guide arm
there shall be a gap allowed to the tape at the point of the upper flange and of the lower flange.

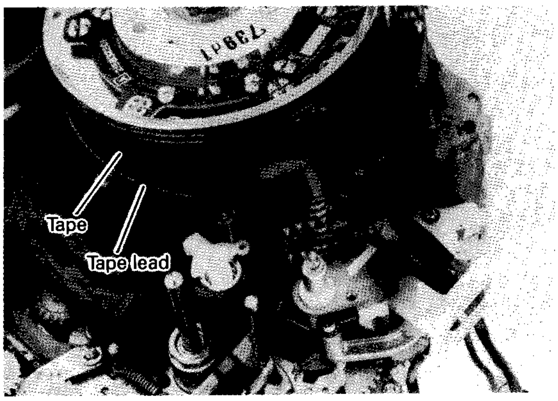

Tape
Tape lead

Fig.4 − 2 − 1

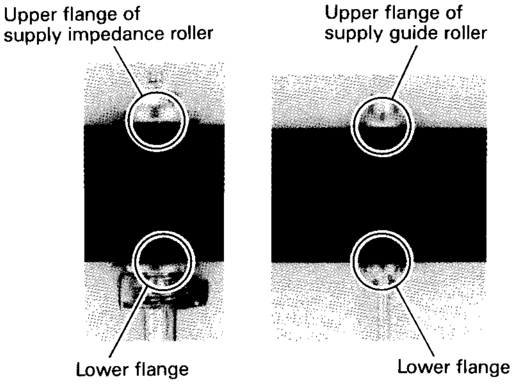

Upper flange of supply impedance roller
Upper flange of supply guide roller
Lower flange
Lower flange

Fig.4 − 2 − 2

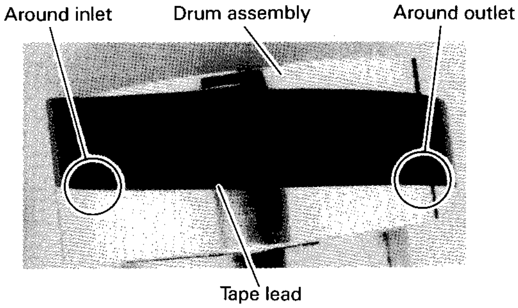

Around inlet
Drum assembly
Around outlet
Tape lead

Fig.4 − 2 − 3

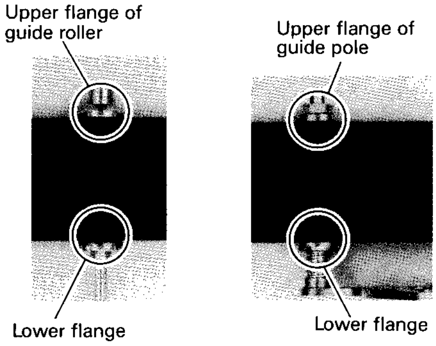

Upper flange of guide roller
Upper flange of guide pole
Lower flange
Lower flange

Fig.4 − 2 − 4

5-2-3 AC head rough adjustment

(1) Playrear a self-recording tape.

(2) Check running condition of the tape near the Takeup guide pole.

(3) Adjust by turning the AC head inclination adjust screw ⓐ (Fig. 4-2-6) so that a gap is provided between the tape and the upper flange and no gap is allowed between the tape and the lower flange, and that any fold mark or crease is eliminated from the tape.

Note : When the AC head inclination adjust screw ⓐ is turned, azimuth of the AC head changes. To adjust inclination of AC head, it is necessary to correct azimuth by turning the azimuth adjust screw ⓑ. (See Fig. 4-2-6.)

A) If tape position is high to the Takeup guide pole, turn the AC head inclination adjust screw ⓐ (Fig. 4-2-6) clockwise to adjust the position.

B) If tape position is low to the Takeup guide pole, turn the AC head indlination adjust screw ⓐ (Fig. 4-2-6) counter-clockwise to adjust the position.

(4) While checking visually, adjust height of the AC head by turning the nut ⓒ (Fig. 4-2-6) to the extent that the audio head upper edge of the AC head is slightly seen above the tape upper edge (0.1mm max. : Fig. 4-2-7).

(5) After completing above adjustment, proceed to AC head adjustment (azimuth adjustment in particular).

(6) After repeating loading and unloading of the tape, make sure there is a gap allowed between the tape and the upper flange of the Takeup guide pole and no gap is allowed between the tape and the lower flange, and that the tape is free from any folding or crease.

(7) If the result of the above check isn't favourable, repeat procedure from (2) to (6) above.

Note : If the adjust screws ⓐ, ⓑ and ⓓ (Fig. 4-2-6) are adjusted in this case, thread lock shall be applied to the adjust screws after completing the adjustment. Be careful, at this time, so that no thread lock is deposited onto the tape run system.

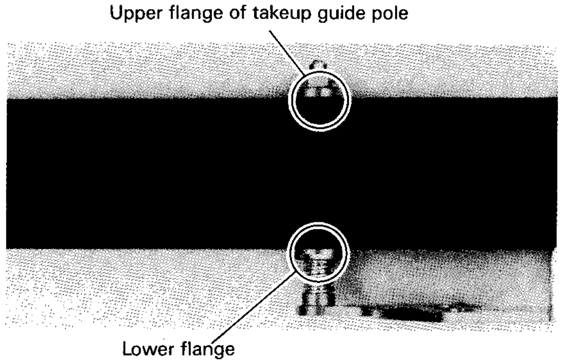


Fig.4 − 2 − 5

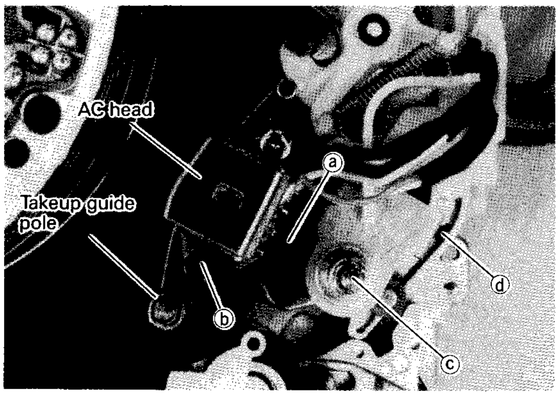


Fig.4 − 2 − 6

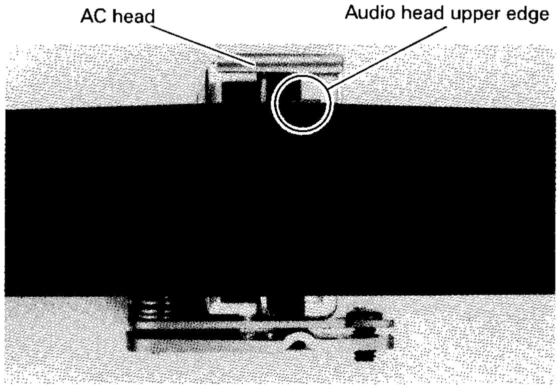


Fig.4 − 2 − 7

5-3 Guide roller height adjustment

Note : Checking and adjustment of the tape run system shall have been practiced prior to this height adjustment.

(1) Play rear staircase (2H mode) of the alignment tape.

(2) Connect an oscilloscope to TP2A (PCB SIGNAL) and apply external trigger (- slope) by TP5A.

(3) Turn the tracking to manual mode, and make sure that amplitude level of FM waveform at the supply side (left side of waveform), centre, and Takeup side (right side of waveform) changes synchronizing eadh other when the amplitude level of FM waveform (centre) is changed repeatedly from the maximum to the minimum.

(4) If the result of the above confirmation isn't favourable, adjust guide roller height according to the following instructions.

(5) Observe FM waveform at the supply side and the Takeup side.

If variation of amplitude level of the waveform delays to the waveform centre, the guide roller height is low. Adjust the height by loosening the set screw to the degree that the guide roller turns easily, and by turning the guide roller counter-clockwise.

If variation of amplitude level of the wave form preceeds the waveform centre, the guide roller height is high. Adjust the height by loosening the set screw to the degree that the guide roller turns easily and by turning the guide roller clockwise.

Note : In adjusting guide roller height, pay attention to following points;

To turn the guide roller little by little.

To refrain from turning the guide roller more than ± 180°.

(6) After completing height adjustment of the guide roller, tighten the set screw.

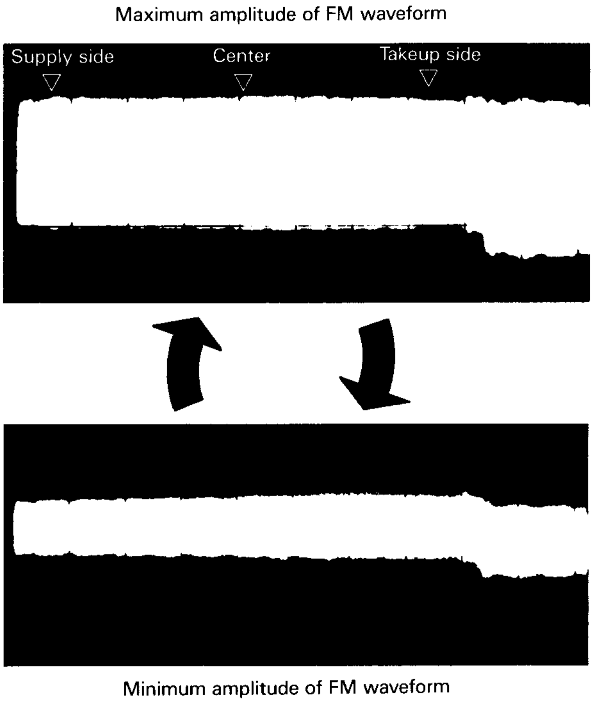


Fig.4 − 3 − 1

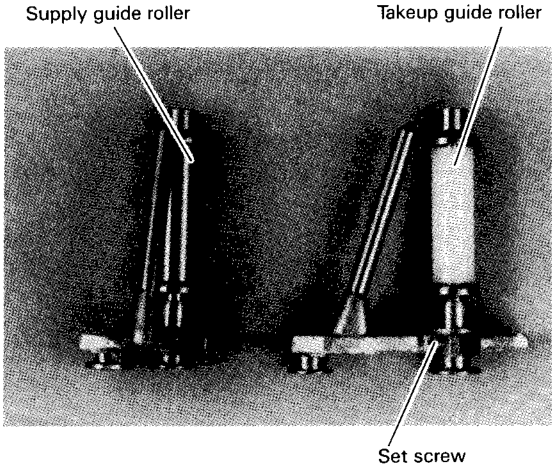


Fig.4 − 3 − 2

5-4 AC head adjustment

5-4-1 AC head height adjustment

(1) Play rear an alignment tape (6KHz audio signal).

(2) Connect an oscilloscope to the audio out terminal.

(3) Adjust amplitude level of audio out signal to the maximum by turning the AC head height adjust nut ⓒ (Fig. 4-4-2).

5-4-2 AC head inclination adjustment

(1) Playrear a self-recording tape.

(2) Check tape run condition near the Takeup guide pole.

(3) By turning the AC head inclination adjust screw ⓐ (Fig. 4-4-2), adjust head inclination so that a gap is allowed between the tape and the upper flange, no gap is allowed between the tape and the lower flange, and any fold mark or crease is eliminated from the tape.

Note : Azimuth of the AC head changes when the AC head inclination adjust screw ⓐ (fig. 4-4-2) is turned. Accordingly, adjust inclination while turnng the azimuth adjust screw ⓑ (Fig. 4-4-2) and correcting azimuth by visual check.

If position of the tape is low to the Takeup guide pole, adjust by turning the AC head inclination adjust screw ⓐ (Fig. 4-4-2) counter-clockwise.

5-4-3 AC head azimuth adjustment

(1) Connect an oscilloscope to the audio output terminal.

(2) Playrear an alignment tape (6KHz audio signal). After completing the adjustment, apply thread lock to the adjust screw. Be careful so that no thread lock is deposited onto the tape run system.

(3)Turn the screw ⓑ (Fig. 4-4-2) for A/C head azimuth adjustment so that the audio output level is maximum.

Note : If the adjust screws ⓐ, ⓑ and ⓓ (Fig. 4-4-2) are adjusted in this case, thread lock shall be applied to the adjust screws after completing the adjustment. Be careful, at this time, so that no thread lock is deposited onto the tape run system.

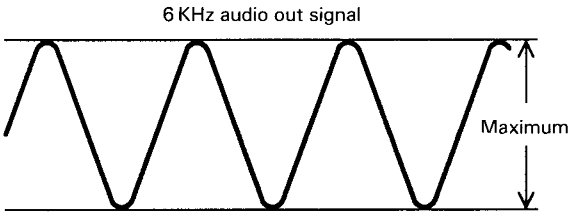


Fig.4 – 4 – 1

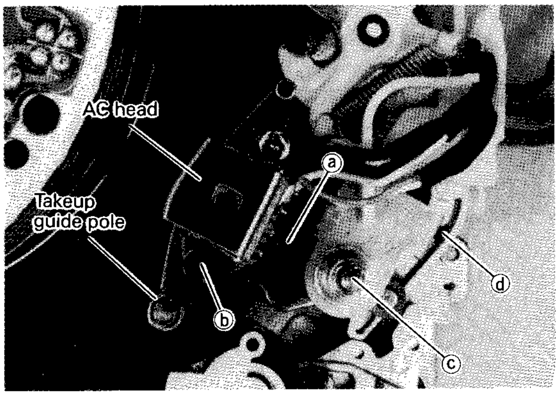


Fig.4 – 4 – 2

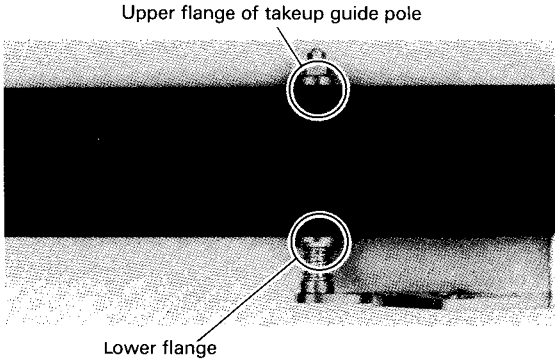


Fig.4 – 4 – 3

5-5 Phase adjustment

(1) Playrear staircase (2H mode) of an alignment tape.

(2) Connect an oscilloscope to TP2A (PCB SIGNAL) and apply external trigger (- slope) by TP5A.

(3) Connect TP-5B on the main board to GND, and keep tracking forcefully at preset mode.

(4) Turn the phase adjust screw ⓓ (Fig. 4-5-1) clockwise to tighten softly.

(5) Turn the phase adjust screw ⓓ (Fig. 4-5-1) counter-clockwise to adjust FM waveform amplitude level to the point next to the maximum.

(6) Release forced preset mode of tracking.

(7) Turn tracking to manual mode and adjust FM waveform to the maximum amplitude level.

(8) Make sure that the FM waveform amplitude level at tracking preset is equal to the maximum value of FM waveform amplitude level under manual mode.

(9) If the result of the above check isn't favourable, repeat adjustment from (3) to (8) above.

(10) After completing phase adjustment, shake the AC head assembly a little around the mounting shaft to make sure that audio output signal is maximum.

(11) If the result of the above checking isn't favourable, repeat adjustment of the AC head again.

Note : When the adjust screws ⓐ, ⓑ, ⓓ (Fig. 4-5-1) are used for the above adjustment, apply thread lock to the adjust screws at the end of the adjustment. Be careful, at that time, so that no thread-lock is deposited onto the tape run system.

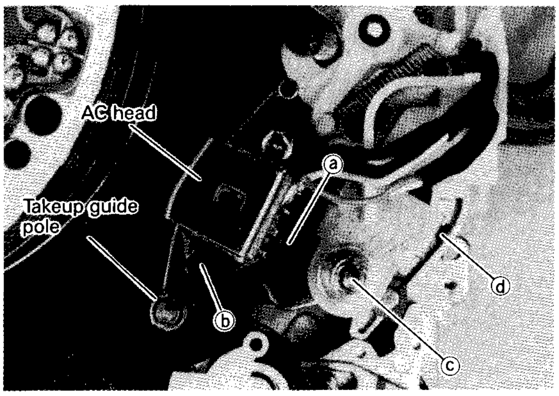


Fig.4 − 5 − 1

CHIP PARTS REPLACEMENT

Some resistors, shorting jumpers (0Ω resistor), ceramic capacitors, transistors and diodes are chip parts which are used for certain circuit elements. When replacing these parts, note the cautions as follows.

Cautions:

A. Use fine tipped, well insulated soldering pencil (iron) about 30 watts and the tweezers.
B. Melting the solder, remove the Chip Parts carefully not to tear off the copper foil of the printed circuit board.
C. Discard removed chips; do not reuse them.
D. Do not apply heat for more than 3 seconds to the new chip Parts.
E. Avoid using a rubbing stroke when soldering.
F. Take care not to scratch when soldering, or damage the Chip Parts.
G. Supplementary cementing is not required.

1. Removal of chip Parts (Resistors, capacitors, etc.)

A. Grasp the part with tweezers. Melting the solder at both side alternately, remove the one side of the part with a twisting motion.
B. Melt the solder at the other side and remove the part.

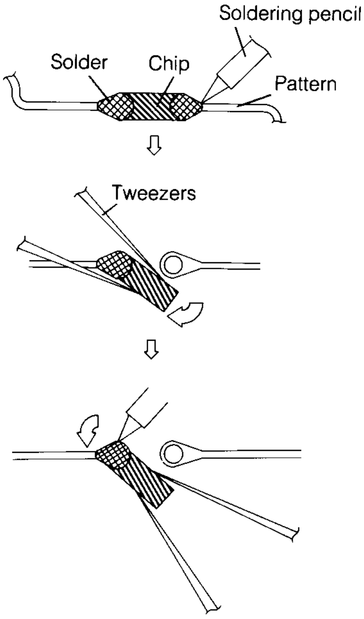

Soldering pencil
Solder
Chip
Pattern
Tweezers

Fig. 1

2. Removal of Chip Parts (Transistors)

A. Melting the solder of one lead, Lift the side of that lead upward.
B. Simultaneously melt the solder of the two remaining leads and lift the part to remove.

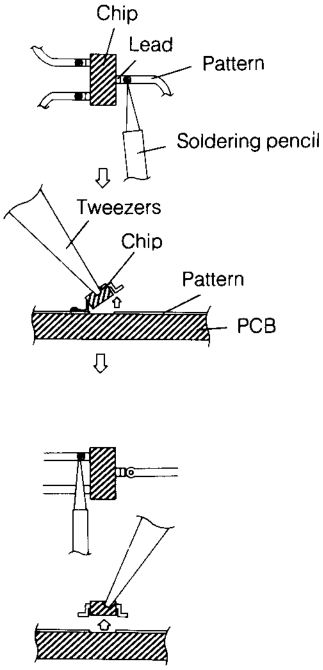

Chip
Lead
Pattern
Soldering pencil
Tweezers
Chip
Pattern
PCB

Fig. 2

3. Replacement

A. Presolder the contact points of the circuit pattern.
B. Press the part downward with tweezers and apply the soldering pencil as shown in the figure.

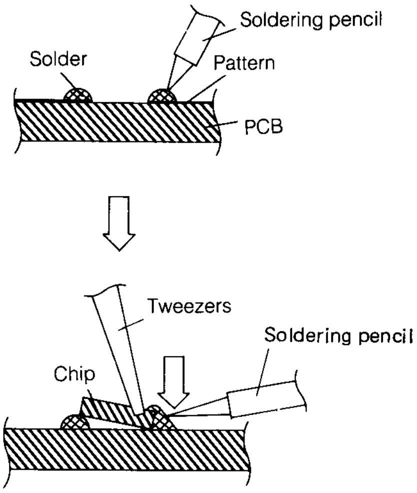
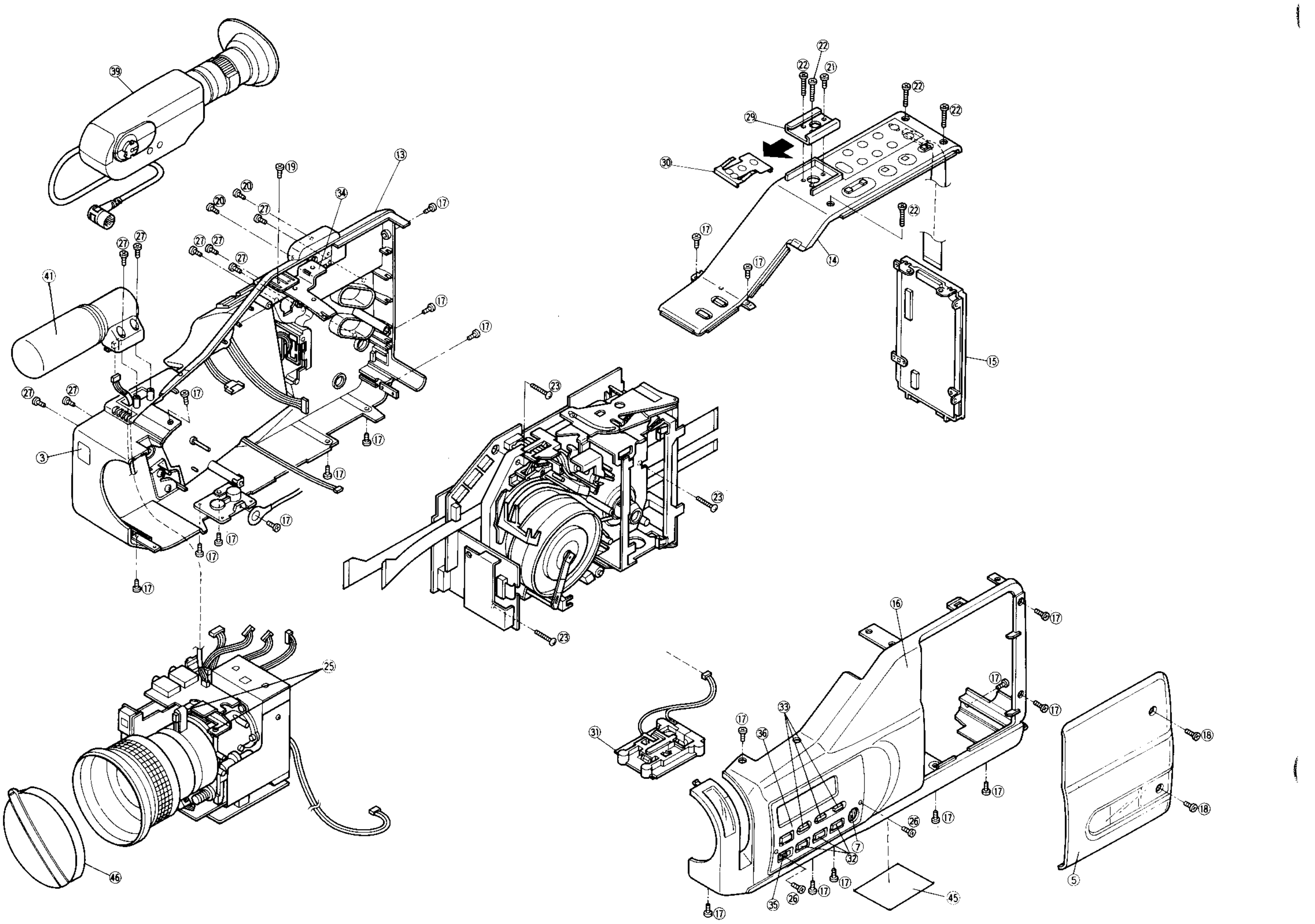

Soldering pencil
Solder
Pattern
PCB
Tweezers
Soldering pencil
Chip

Fig. 3

PARTS LIST

1. Cabinet Assembly



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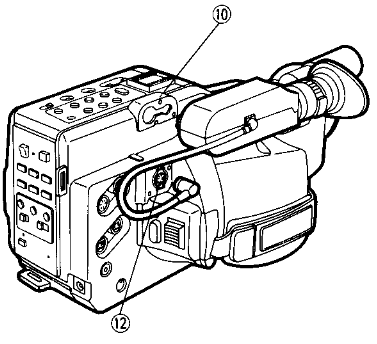

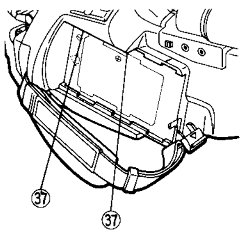

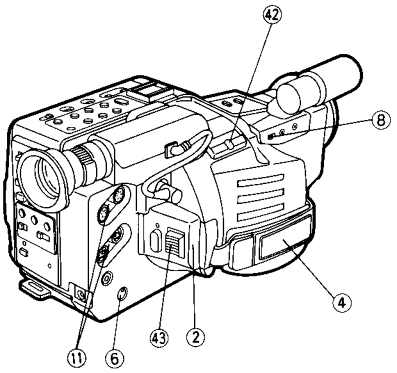

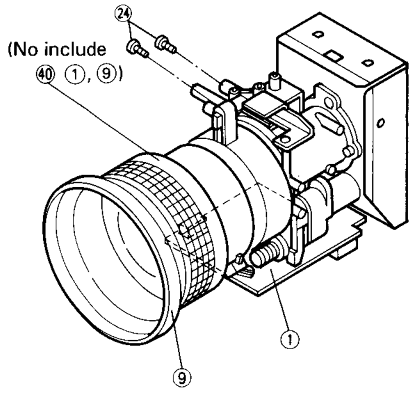

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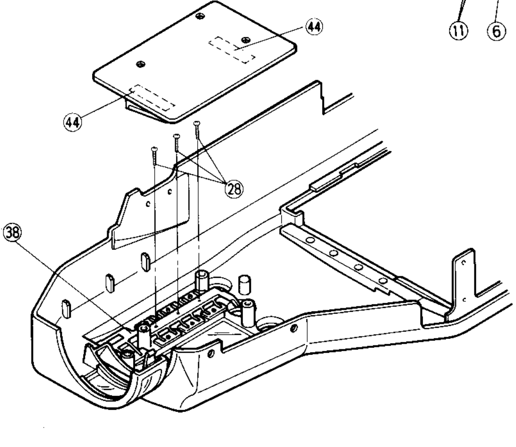
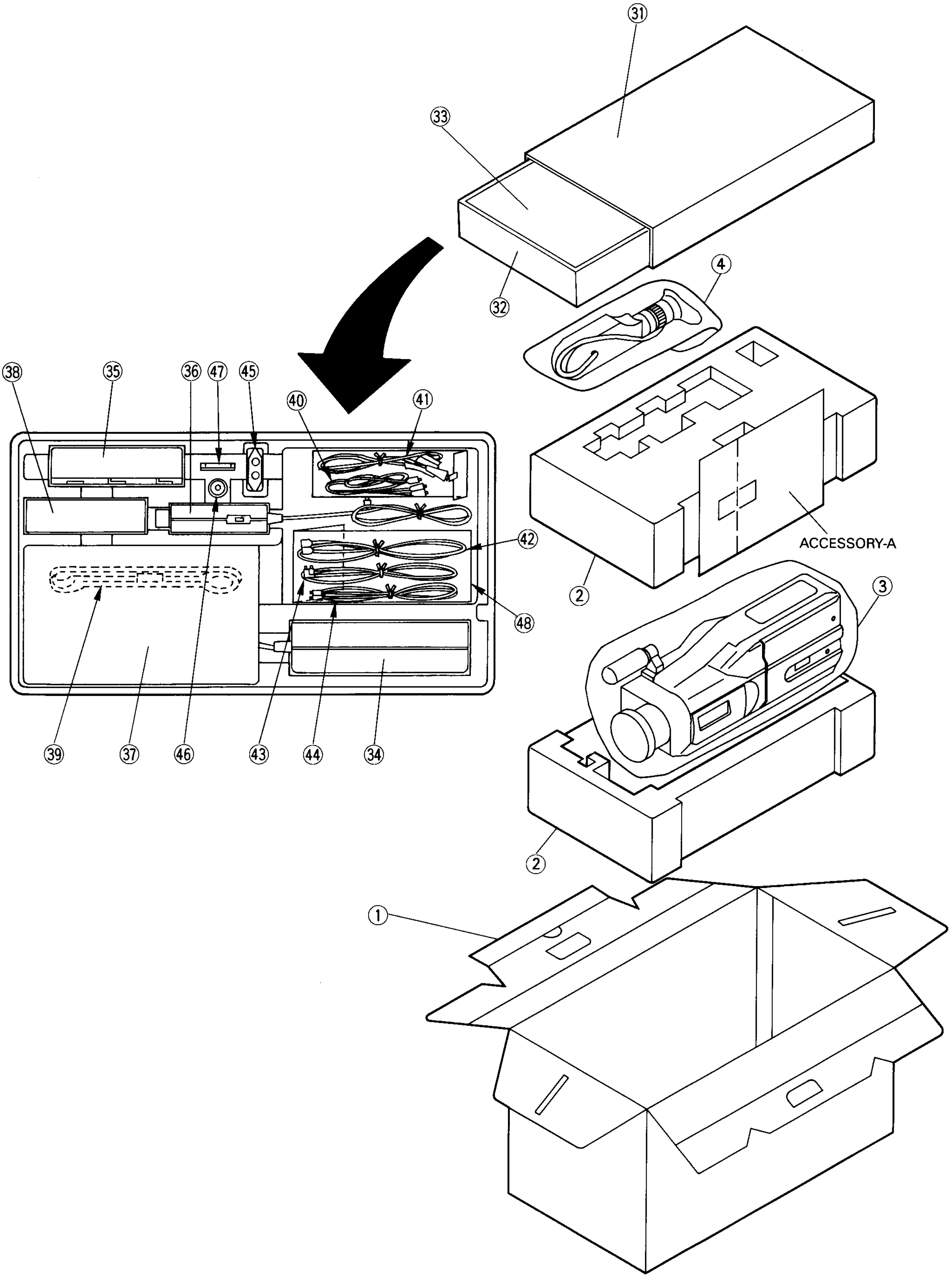


○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
			CABINET ASSEMBLY	
○	1	939P291020	AF UNIT	
○	2	761C359020	TRIGGER COVER	
○	3	761D605010	FILTER-WB	
○	4	772C012020	BELT GRIP	
○	5	702B666030	CASSETTE HOUSING PANEL	
○	6	734D471010	ADJUST KNOB	
○	7	734D463010	IRIS KNOB	
○	8	734D465010	WINDOW SHUTTER KNOB	
○	9	761C365010	LENS HOOD	
○	10	761C353010	EVF SHOE	
○	11	440B093030	TERMINAL BOARD	
○	12	761C357010	EVF TERMINAL	
○	13	701B173030	LOWER CASE UNIT	
○	14	939P304030	CAMERA SW UNIT	
○	15	939P305030	VTR SW UNIT	
○	16	701B174030	UPPER CASE UNIT	
○	17	669D372010	SCREW	M2X4
○	18	669D317030	SCREW	M2X0.4-5
○	19	669D321010	SCREW	M2X0.4-4
○	20	669D321020	SCREW	M2X0.4-10
○	21	669D321040	SCREW	(10P)
○	22	669D321070	SCREW	M2X0.4-12
○	23	669D319030	SCREW	2.6X16
○	24	669D322020	SCREW	2.6X8
○	25	669D322050	SCREW	2X6
	26	669D322060	SCREW	2X6
○	27	669D322080	SCREW	2X8
○	28	669D322090	SCREW	
○	29	596D183010	ADAPTOR SHOE	
○	30	572D376010	SPRING SHOE	
○	31	701B175010	BACK UP BATTERY UNIT	
○	32	704C691010	CAMERA BUTTON	
○	33	704C692010	COUNTOR BUTTON	
○	34	596D182010	CASE HOLDER	
○	35	734D464010	SLIDE KNOB	
○	36	702B673030	SIDE PANEL	
○	37	572D372010	BATTERY PLATE	
○	38	592C863010	SIDE SPRING	
○	39	939P315010	EVF UNIT	
○	40	490P047010	LENS UNIT	
○	41	485P012010	MICROPHONE UNIT	
○	42	439P022010	ZOOM UNIT	
○	43	734C006010	CAMERA SLIDE KNOB	
○	44	761D618010	LCD SUPPORTER	
○	45	851C964010	CAUTION LABEL-B	
○	46	702C853020	LENS CAP	

2. Packing Parts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ACCESSORY-A
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○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
PACKING PARTS				
○	1	802C977010	PACKING CASE	HS-C40E
○	1	802C977020	PACKING CASE	HS-C40B
○	1	802C977030	PACKING CASE	HS-C40A
○	2	803A175010	PACKING CUSHION	
○	3	831D177050	PACKING BAG	
	4	831D198020	PACKING BAG	
ACCESSORY – A				
○		871C892010	INSTRUCTION BOOK	HS-C40E
		831D181020	PACKING BAG	
○		871C878070	INSTRUCTION BOOK	
○		871C892020	INSTRUCTION BOOK	HS-C40E
ASSY – ACCESSORY				
○	31	802C975010	ACCESSORY SLEEVE	HS-C40E
○	31	802C975020	ACCESSORY SLEEVE	HS-C40B
○	31	802C975030	ACCESSORY SLEEVE	HS-C40A
○	32	803A193010	ACCESSORY CUSHION	
○	33	802C974010	ACCESSORY SHEET	
○	34	939P320010	AC POWER ADAPTER	HS-C40E
○	34	939P320020	AC POWER ADAPTER	HS-C40B
○	34	939P320030	AC POWER ADAPTER	HS-C40A
○	35	939P301030	BATTERY PACK	
○	36	295P095010	RF CONVERTER UNIT	HS-C40A
○	36	295P090010	RF CONVERTER UNIT	HS-C40E, HS-C40B
○	37	471P059030	CASSETTE ADAPTER	
	38	---	C VIDEO CASSETTE	
○	39	772P013030	SHOULDER BELT	
○	40	264C083010	AV MONO CABLE	
○	41	264C084010	AV 21 CABLE	
○	42	242D231030	CABLE	1.5M
○	43	242C977030	DC CABLE	
○	44	242D335010	CABLE	
○	45	451C072010	AC JACK	HS-C40E
	46	---	BATTERY	
○	47	283P035020	BACKUP BATTERY	
○	48	831D252010	PACKING BAG	

3. ELECTRICAL PARTS

INTEGRATED CIRCUITS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
IC1	272P414010	IC	MN3761FS
IC0SA	263P216010	IC	MN5108
IC0SD	267P038020	IC	7P038-2
IC0SE	263P773010	IC	μPD6147G
IC0SJ	267P056020	IC	B092-2
IC201	266P023030	IC	AN3311S
IC2AA	272P203010	IC	NJM3414M
IC2AB	272P355010	IC	AN2153S
IC2AC	272P364010	IC	NJM2406F
IC2AD	263P223010	IC	SC14S01F
IC2AF	267P057020	IC	B093-2
IC2AG	272P204010	IC	LM2904M
IC2AJ	272P209010	IC	AN2020S
IC2AK	267P070010	IC	7P070
IC2AL	272P204010	IC	LM2904M
IC2D0	272P368010	IC	M51294FP
IC2JA	266P041010	IC	HA11776AMP
IC2JB	263P223010	IC	SC14S01F
IC2JC	263P223010	IC	SC14S01F
IC2JD	263P222010	IC	MN67621F
IC2JE	263P220010	IC	SC7SU04F
IC2JH	263P223010	IC	SC14S01F
IC2JK	263P223010	IC	SC14S01F
IC2JL	267P055020	IC	B091-2
IC2JM	263P220010	IC	SC7SU04F
IC2P0	267P069030	IC	KIC-PIP(B103-3)
IC2S0	272P372010	IC	NJM2244M
IC2S1	272P372010	IC	NJM2244M
IC2S2	272P402020	IC	NJM2243M
IC2001	267P054020	IC	MV-1045-2
IC2002	267P073010	IC	ADL-DP002M
IC2003	267P072030	IC	KIC-SUB-EMP(B104-3)
IC2004	272P317020	IC	M52054FP
IC2005	267P065030	IC	KIC-FM-EQ(B099-3)
IC301	272P375010	IC	BA7757BK
IC302	272P376020	IC	XRA15218F
IC3300	272P374010	IC	BA328F
IC400	272P297010	IC	BA6431F
IC420	272P367010	IC	M51795FP
IC421	266P419020	IC	M5223FP
IC450	272P299010	IC	BA6455FS
IC4A0	266P419020	IC	M5223FP
IC4A2	272P191010	IC	BA6109U2
IC4001	263P231010	IC	M60030-0111FP
IC4002	263P239010	IC	M5M5256VP-12LL
IC4003	272P366010	IC	LM311PS
IC4004	263P230010	IC	SC7S00F
IC5A0	263P286010	IC	M37405M5-106FP *
IC5A0	263P286020	IC	M37405M5-113FP
IC5A1	263P677020	IC	TC4077BF

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
IC5A2	272P186010	IC	LM393M
IC5FA	272P354010	IC	NJM2225M
IC5FB	263P223010	IC	SC14S01F
IC601	272P331020	IC	HA118116MA
IC602	272P332020	IC	HA118117FP
IC603	272P231020	IC	HA118054FP
IC604	272P371010	IC	NJM2234M
IC7AA	263P294010	IC	M37450M4-108FP
IC7AB	272P079010	IC	NJM2902M
IC7AC	272P079010	IC	NJM2902M
IC7AR	272P357010	IC	RST529C
IC7BA	263P215010	IC	MC74HC4051F
IC7WB	267P058020	IC	B094-2
IC7ZC	272P186010	IC	LM393M
IC7ZM	272P358010	IC	TK10500
IC8A1	263P236010	IC	M34200M4-123FP
IC8000	263P287010	IC	
IC8001	263P677020	IC	TC4077BF
IC8002	263P653010	IC	TC4053BF
IC8700	263P285010	IC	
IC8701	263P233010	IC	RTC-4503
IC8702	272P362010	IC	S-8054ALB-LM-T1
IC8703	272P359010	IC	S-81215AG-RK-T1/RH5R
IC900	272P298010	IC	BA6149LS
IC901	272P300010	IC	UN102
IC950	266P419020	IC	M5223FP
IC952	272P186010	IC	LM393M
IC980	272P360010	IC	S-81250HG-RD-T1

TRANSISTORS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 0SA	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SB	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 0SC	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SD	260P861020	CHIP TRANSISTOR	2SA1577A-Q
Q 0SE	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SF	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SL	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 0SM	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 201	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 202	260P857010	CHIP TRANSISTOR	DTC144EU
Q 203	260P857010	CHIP TRANSISTOR	DTC144EU
Q 204	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 205	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 206	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 211	260P856010	CHIP TRANSISTOR	DTA144EU
Q 212	260P857010	CHIP TRANSISTOR	DTC144EU
Q 213	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 214	260P857010	CHIP TRANSISTOR	DTC144EU
Q 215	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 216	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 217	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 218	260P855020	CHIP TRANSISTOR	2SC4081-R
Q 219	260P855020	CHIP TRANSISTOR	2SC4081-R
Q 220	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 221	260P859020	CHIP TRANSISTOR	2SA1576-R

* Interchangeable (Upper ⟷ Lower)

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 222	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 223	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 224	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 225	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 226	260P857010	CHIP TRANSISTOR	DTC144EU
Q 227	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 228	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 229	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 230	260P859050	CHIP TRANSISTOR	2SA1576-R
Q 231	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 241	260P857010	CHIP TRANSISTOR	DTC144EU
Q 242	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2AA	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2AC	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2AD	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AE	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AG	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AH	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AJ	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2AK	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2AL	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2AM	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2AN	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2AP	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AQ	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AR	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2AW	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AX	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AY	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2AZ	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2D0	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2D1	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2D2	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2G0	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2GA	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2GB	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2GC	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2GD	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2GE	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2GF	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2GG	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2JA	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2JC	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2JE	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2JK	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2JL	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2JW	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2JZ	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2KA	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2KB	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2KC	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2KD	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2KE	260P863010	CHIP TRANSISTOR	IMT1
Q 2KF	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2KG	260P854030	CHIP TRANSISTOR	2SC4098-Q

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 2KJ	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2KK	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2KL	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2L0	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2L1	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2P0	260P843010	CHIP TRANSISTOR	FMS1
Q 2P1	260P843010	CHIP TRANSISTOR	FMS1
Q 2S0	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2S1	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2S2	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2S3	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2S4	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2S5	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2ZA	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 2ZB	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2ZC	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 2ZD	260P863010	CHIP TRANSISTOR	IMT1
Q 2ZE	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 2004	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2005	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2009	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2011	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2012	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2013	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2014	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 2015	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2016	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2017	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2032	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2033	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 2034	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2036	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2038	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2101	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2102	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 2103	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 2104	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 2105	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 2109	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2110	260P857010	CHIP TRANSISTOR	DTC144EU
Q 2201	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 2202	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 2401	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 2402	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 2403	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 2404	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2405	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 2406	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2407	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2408	260P856010	CHIP TRANSISTOR	DTA144EU
Q 2409	260P856010	CHIP TRANSISTOR	DTA144EU
Q 301	260P856010	CHIP TRANSISTOR	DTA144EU
Q 302	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 303	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 304	260P851010	CHIP TRANSISTOR	IMD2/XN4312

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 305	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 306	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 307	260P867060	CHIP TRANSISTOR	2SD1949-R
Q 308	260P857010	CHIP TRANSISTOR	DTC144EU
Q 309	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 310	260P861020	CHIP TRANSISTOR	2SA1577A-Q
Q 311	260P861020	CHIP TRANSISTOR	2SA1577A-Q
Q 313	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 314	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 3AA	260P867020	CHIP TRANSISTOR	2SD1949-Q
Q 3BA	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 3BB	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 400	260P855010	CHIP TRANSISTOR	2SC4081-Q
Q 420	260P855030	CHIP TRANSISTOR	2SC4081-S
Q 450	260P855010	CHIP TRANSISTOR	2SC4081-Q
Q 480	260P867050	CHIP TRANSISTOR	2SD1949
Q 4B0	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 4B1	260P856010	CHIP TRANSISTOR	DTA144EU
Q 4B2	260P856010	CHIP TRANSISTOR	DTA144EU
Q 4C0	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 4C1	260P856010	CHIP TRANSISTOR	DTA144EU
Q 4F0	260P482010	CHIP TRANSISTOR	2SB798-DK
Q 4F1	260P808010	CHIP TRANSISTOR	DTC114EK
Q 4001	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 571	268P026010	PHOTO INTERRUPTER	GP2L04B
Q 572	268P026010	PHOTO INTERRUPTER	GP2L04B
Q 5A0	260P855070	CHIP TRANSISTOR	2SD1819A-Q
Q 5A2	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 5A3	260P849020	CHIP TRANSISTOR	IMZ1/XN4601
Q 5A4	260P855070	CHIP TRANSISTOR	2SD1819A-Q
Q 5A5	260P859070	CHIP TRANSISTOR	2SB1218A-Q
Q 5B0	260P858010	CHIP TRANSISTOR	DTA114EU
Q 5B1	260P856010	CHIP TRANSISTOR	DTA144EU
Q 601	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 602	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 603	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 604	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 606	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 607	260P844020	CHIP TRANSISTOR	FMW1/XN1501
Q 608	260P853010	CHIP TRANSISTOR	FMA2/XN1113
Q 609	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 610	260P857010	CHIP TRANSISTOR	DTC144EU
Q 611	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 612	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 613	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 614	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 615	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 616	260P856010	CHIP TRANSISTOR	DTA144EU
Q 617	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 618	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 7CA	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 7MA	260P854030	CHIP TRANSISTOR	2SC4098-Q
Q 7PA	260P482010	CHIP TRANSISTOR	2SB798-DK
Q 7PB	260P857020	CHIP TRANSISTOR	DTC144EU
Q 8A1	260P856010	CHIP TRANSISTOR	DTA144EU

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
Q 8A2	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8000	260P852010	CHIP TRANSISTOR	FMG2/XN1213
Q 8002	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8003	260P845020	CHIP TRANSISTOR	IMX1/XN4501
Q 8004	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8005	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 8006	260P859020	CHIP TRANSISTOR	2SA1576-R
Q 8701	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8704	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8705	260P864010	CHIP TRANSISTOR	2SK209GR
Q 8706	260P802090	CHIP TRANSISTOR	2SA1235F, G
Q 8707	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8708	260P861050	CHIP TRANSISTOR	2SA1577A-Q
Q 8709	260P854020	CHIP TRANSISTOR	2SC4098-P
Q 8720	260P844010	CHIP TRANSISTOR	FMW1
Q 8721	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8722	260P856010	CHIP TRANSISTOR	DTA144EU
Q 8723	260P856010	CHIP TRANSISTOR	DTA144EU
Q 8724	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8725	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8726	260P857010	CHIP TRANSISTOR	DTC144EU
Q 8727	260P859080	CHIP TRANSISTOR	2SB1218A
Q 900	260P851010	CHIP TRANSISTOR	IMD2/XN4312
Q 901	260P847010	CHIP TRANSISTOR	2SB1114-ZL
Q 902	260P847010	CHIP TRANSISTOR	2SB1114-ZL
Q 930	260P802090	CHIP TRANSISTOR	2SA1235F, G
Q 931	260P845010	CHIP TRANSISTOR	IMX1
Q 932	260P865010	CHIP TRANSISTOR	2SD999-CK
Q 933	260P482010	CHIP TRANSISTOR	2SB798-DK
Q 934	260P845010	CHIP TRANSISTOR	IMX1
Q 960	260P866010	CHIP TRANSISTOR	2SC3736-OK
Q 961	260P847010	CHIP TRANSISTOR	2SB1114-ZL
Q 962	260P855010	CHIP TRANSISTOR	2SC4081-Q
Q 963	260P858010	CHIP TRANSISTOR	DTA114EU
Q 983	260P482010	CHIP TRANSISTOR	2SB798-DK

DIODES

D 0SC	264P814010	CHIP DIODE	DAP202U
D 0SD	264P814010	CHIP DIODE	DAP202U
D 0SE	264P815060	CHIP DIODE	RD5.1MB1
D 201	264P828010	CHIP DIODE	DAN202U
D 202	264P828010	CHIP DIODE	DAN202U
D 203	264P828010	CHIP DIODE	DAN202U
D 204	264P828010	CHIP DIODE	DAN202U
D 205	264P828010	CHIP DIODE	DAN202U
D 207	264P828010	CHIP DIODE	DAN202U
D 290	264P828010	CHIP DIODE	DAN202U/MA142W
D 291	264P828010	CHIP DIODE	DAN202U/MA142W
D 2AA	264P814010	CHIP DIODE	DAP202U
D 2D0	264P828010	CHIP DIODE	DAN202U
D 2T0	264P814030	CHIP DIODE	MA142WA
D 2X5	264P816090	CHIP DIODE	RD11MB2

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
D 2X6	264P816090	CHIP DIODE	RD11MB2
D 2002	264P833010	CHIP DIODE	ND411G-2
D 2080	264P814010	CHIP DIODE	DAP202U
D 2082	264P828010	CHIP DIODE	DAN202U
D 2101	264P828010	CHIP DIODE	DAN202U
D 2103	264P828010	CHIP DIODE	DAN202U
D 301	264P828010	CHIP DIODE	DAN202U
D 3BA	264P833010	CHIP DIODE	ND411G-2
D 450	264P828010	CHIP DIODE	DAN202U
D 451	264P814010	CHIP DIODE	DAP202U
D 4C1	264P830020	CHIP DIODE	DA204U
D 4D0	264P828010	CHIP DIODE	DAN202U
D 4F0	264P816050	CHIP DIODE	RD7.5MB2
D 4001	264P814010	CHIP DIODE	DAP202U
D 501	264P313050	DIODE	SLR-34URC3
D 571	264P526010	LIGHT EMITTING DIODE	LN57
D 5A0	264P814010	CHIP DIODE	DAP202U
D 5B0	264P816050	CHIP DIODE	RD7.5MB2
D 5B1	264P816050	CHIP DIODE	RD7.5MB2
D 601	264P814010	CHIP DIODE	DAP202U
D 602	264P814010	CHIP DIODE	DAP202U
D 603	264P828010	CHIP DIODE	DAN202U
D 604	264P828010	CHIP DIODE	DAN202U
D 605	264P833010	CHIP DIODE	ND411G-2
D 7AA	264P828010	CHIP DIODE	DAN202U
D 7ZT	264P830020	CHIP DIODE	DA204U
D 7ZW	264P830020	CHIP DIODE	DA204U
D 8A1	264P814010	CHIP DIODE	DAP202U
D 8A2	264P814010	CHIP DIODE	DAP202U
D 8000	264P814010	CHIP DIODE	DAP202U
D 8001	264P814010	CHIP DIODE	DAP202U
D 8002	264P814010	CHIP DIODE	DAP202U
D 8700	264P828010	CHIP DIODE	DAN202U
D 8701	264P828010	CHIP DIODE	DAN202U
D 8702	264P828010	CHIP DIODE	DAN202U
D 8703	264P828010	CHIP DIODE	DAN202U
D 8705	264P828010	CHIP DIODE	DAN202U
D 8706	264P816050	CHIP DIODE	RD7.5MB2
D 8707	264P816050	CHIP DIODE	RD7.5MB2
D 8708	264P816050	CHIP DIODE	RD7.5MB2
D 8709	264P816050	CHIP DIODE	RD7.5MB2
D 8710	264P833010	CHIP DIODE	ND411G-2
D 900	264P551010	DIODE	RK13
D 901	264P832010	CHIP DIODE	SFPB64V
D 930	264P814010	CHIP DIODE	DAP202U
D 931	264P814010	CHIP DIODE	DAP202U
D 932	264P814010	CHIP DIODE	DAP202U
D 950	264P814010	CHIP DIODE	DAP202U
D 960	264P814030	CHIP DIODE	MA142WA
D 961	264P831010	CHIP DIODE	SFPB54V
D 963	264P814030	CHIP DIODE	MA142WA
D 964	264P828010	CHIP DIODE	DAN202U
D 965	264P828010	CHIP DIODE	DAN202U
D 966	264P828010	CHIP DIODE	DAN202U
D 967	264P828010	CHIP DIODE	DAN202U

OTHER SEMICONDUCTORS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
RP4F0	265P077010	POSITIVE THERMISTOR	PTH61G16BD2R2N

FILTERS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
BPF2B1	409P515010	B-P-F CHIP	
BPF2P0	409P553010	B-P-F CHIP	
BPF6A1	409P552010	B-P-F CHIP	
BPF6A2	409P554010	B-P-F CHIP	
L 303	409P526010	B-P-F CHIP	
CF6A1	296P103010	CERAMIC FILTER	
CF8A1	299P126030	CERAMIC OSC CHIP	CSAC2.00
CF8700	299P126010	CERAMIC OSC CHIP	CSAC4.19
CF900	296P099010	CERAMIC RESONATOR	
LF2AA	409P545010	L-P-F CHIP	4FS4041
LF2AB	409P506010	L-P-F CHIP	4FT
LF2AC	409P546010	L-P-F CHIP	4FW4050
LF2AD	409P396010	LOW PASS FILTER	
LF2AE	409P396010	LOW PASS FILTER	
LF2AF	409P547010	L-P-F CHIP	4FS3218
LF2AG	409P548010	L-P-F CHIP	4FT3235
LF2JA	409P503010	L-P-F CHIP	4FUS
LF2JB	409P549010	B-P-F CHIP	4FUS4046
LPF2B1	409P517010	L-P-F CHIP	
LPF2B2	409P555010	L-P-F CHIP	
LPF6A1	409P520010	L-P-F CHIP	
L 4101	409P512080	EMI FILTER CHIP	
L 4102	409P512080	EMI FILTER CHIP	
L 4103	409P512080	EMI FILTER CHIP	
L 4104	409P512060	EMI FILTER CHIP	
L 4105	409P512060	EMI FILTER CHIP	
L 4107	409P512030	EMI FILTER CHIP	
L 4108	409P512010	EMI FILTER CHIP	
L 4109	409P512060	EMI FILTER CHIP	
L 4110	409P512010	EMI FILTER CHIP	
L 4111	409P512010	EMI FILTER CHIP	
L 4112	409P512010	EMI FILTER CHIP	
L 4113	409P512060	EMI FILTER CHIP	
L 4114	409P512060	EMI FILTER CHIP	
L 4115	409P512060	EMI FILTER CHIP	
L 4116	409P512030	EMI FILTER CHIP	
L 4117	409P512010	EMI FILTER CHIP	
L 4118	409P512010	EMI FILTER CHIP	
L 4119	409P512010	EMI FILTER CHIP	
L 4120	409P512010	EMI FILTER CHIP	
L 4121	409P512060	EMI FILTER CHIP	
L 4123	409P512060	EMI FILTER CHIP	

DELAY LINES

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
DE2101	409P513010	DELAY EQUALIZER CHIP	ELB-4C511N
DE2102	409P514010	DELAY EQUALIZER CHIP	ELB-4C510N
DL601	337P146010	DELAY LINE	

COILS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
L 0SA	325C241070	CHIP	22μH-K
L 0SD	325C140070	CHIP	3.3μH-K
L 0SF	325C241070	CHIP	22μH-K
L 0SK	325C140030	CHIP	1.5μH-M
L 0SL	325C140030	CHIP	1.5μH-M
L 0SM	325C140030	CHIP	1.5μH-M
L 0SN	325C140030	CHIP	1.5μH-M
L 201	325C243000	CHIP	270μH-K
L 202	325C142050	CHIP	100μH-K
L 203	325C243000	CHIP	270μH-K
L 204	325C141090	CHIP	33μH-K
L 205	325C141030	CHIP	10μH-K
L 206	325C242080	CHIP	180μH-K
L 207	325C242050	CHIP	100μH-K
L 209	325C141040	CHIP	12μH-K
L 210	325C242050	CHIP	100μH-K
L 214	325C242050	CHIP	100μH-K
L 215	325C242050	CHIP	100μH-K
L 217	325C242050	CHIP	100μH-K
L 218	325C133040	CHIP	560μH-K
L 2AA	325C241070	CHIP	22μH-K
L 2AB	325C241070	CHIP	22μH-K
L 2AC	325C241030	CHIP	10μH-K
L 2AD	325C241070	CHIP	22μH-K
L 2AE	325C241070	CHIP	22μH-K
L 2D0	325C242050	CHIP	100μH-K
L 2D1	325C242050	CHIP	100μH-K
L 2JB	325C241070	CHIP	22μH-K
L 2JD	325C241070	CHIP	22μH-K
L 2JE	325C241070	CHIP	22μH-K
L 2JF	325C241070	CHIP	22μH-K
L 2JH	325C142050	CHIP	100μH-K
L 2P0	325C242050	CHIP	100μH-K
L 2S0	325C242050	CHIP	100μH-K
L 2S1	325C242050	CHIP	100μH-K
L 2002	325C242050	CHIP	100μH-K
L 2005	325C242050	CHIP	100μH-K
L 2006	325C242050	CHIP	100μH-K
L 2007	325C242050	CHIP	100μH-K
L 2080	325C242050	CHIP	100μH-K
L 2103	325C243000	CHIP	270μH-K
L 2104	325C141050	CHIP	15μH-K
L 2105	325C242060	CHIP	120μH-K
L 2106	325C242050	CHIP	100μH-K
L 2201	325C242050	CHIP	100μH-K
L 301	409P385010	TRAP	
L 302	409P384020	BIAS TRAP	
L 3300	325C242050	CHIP	100μH-K
L 3301	325C242050	CHIP	100μH-K
L 400	325C142010	CHIP	47μH-K
L 420	325C142010	CHIP	47μH-K
L 450	325C142010	CHIP	47μH-K
L 4001	325C230070	CHIP	3.3μH-J
L 4002	325C142050	CHIP	100μH-K
L 4003	325C142050	CHIP	100μH-K
L 4004	325C142050	CHIP	100μH-K
L 601	325C242050	CHIP	100μH-K
L 603	325C242050	CHIP	100μH-K
L 604	325C242050	CHIP	100μH-K
L 605	325C163060	PEAKING	820μH-K
L 607	325C141050	CHIP	15μH-K
L 609	325C242050	CHIP	100μH-K
L 611	325C141070	CHIP	22μH-K
L 612	325C242050	CHIP	100μH-K
L 613	325C242050	CHIP	100μH-K
L 7AA	325C242010	CHIP	47μH-K
L 7AB	325C242050	CHIP	100μH-K
L 8000	325C141050	CHIP	15μH-K
L 8001	325C242050	CHIP	100μH-K
L 8002	325C240070	CHIP	3.3μH-M
L 900	351P063010	CHOKE	
L 921	351P062010	CHOKE	
L 922	351P063010	CHOKE	
L 940	351P062020	CHOKE	
L 941	351P063010	CHOKE	
L 942	351P056010	CHOKE	
L 943	351P056020	CHOKE	
L 960	325C132050	CHIP	100μH-K
L 961	351P063020	CHOKE	
L 962	325C132050	CHIP	100μH-K
VL601	409P390040	VARIABLE COIL	

TRANSFORMERS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
T 950	409P528010	TRANSFORMER	

VARIABLE RESISTORS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
VR0SE	127C221020	VR-SEMIFIXED-CHIP	1/10W B100KΩ-N SUB STRAIGHT VOL ADJ
VR201	127C250070	VR-SEMIFIXED-CHIP	1/5W B5K Y/C REC LEVEL ADJ
VR202	127C250070	VR-SEMIFIXED-CHIP	1/5W B5K Y/C REC LEVEL ADJ
VR203	127C250050	VR-SEMIFIXED-CHIP	1/5W B2K Y/C REC LEVEL ADJ
VR2AA	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N OB, OFFSET ADJ ALC ADJ
VR2AB	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N
VR2AC	127C220050	VR-SEMIFIXED-CHIP	1/10W B2KΩ-N 1HCCD GAIN ADJ
VR2AE	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N OB, OFFSET ADJ
VR2AJ	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N R-Y, B-Y OFFSET ADJ
VR2AK	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N R-Y, B-Y OFFSET ADJ

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
VR2AL	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N APERTUR CORRECTION ADJ C, OFFSET ADJ
VR2AM	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N
VR2BE	127C221020	VR-SEMIFIXED-CHIP	1/10W B100KΩ-N R,B WB ADJ
VR2BF	127C221020	VR-SEMIFIXED-CHIP	1/10W B100KΩ-N R,B OFFSET ADJ
VR2BG	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N R,B OFFSET ADJ
VR2BH	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N R,B OFFSET ADJ
VR2BJ	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N R-Y GAIN ADJ
VR2BK	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N B-Y GAIN ADJ
VR2JB	127C230070	VR-SEMIFIXED	1/5W B5K CHROMA LOW LUMI SUPPRE ADJ
VR2JE	127C250070	VR-SEMIFIXED-CHIP	1/5W B5K BURST LEVEL ADJ
VR2X0	129D132050	VR-PCB	1/20W B100KΩ-15F STILL, SLOW CIRCUIT ADJ
VR2ZA	127C250080	VR-SEMIFIXED-CHIP	1/5W B10K BURST LEVEL ADJ
VR2ZB	127C250070	VR-SEMIFIXED-CHIP	1/5W B5K BURST LEVEL ADJ
VR2003	127C220040	VR-SEMIFIXED-CHIP	1/10W B1KΩ-N SUB EMPH IN LEVEL ADJ
VR2004	127C221010	VR-SEMIFIXED-CHIP	1/10W B50KΩ-N PB DEMO SENS & PB LEVEL ADJ
VR2005	127C221020	VR-SEMIFIXED-CHIP	1/10W B100KΩ-N PB DEMO SENS & PB LEVEL ADJ
VR2006	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N Y-NR ADJ
VR2007	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N CARRIER DEV ADJ
VR2008	127C221000	VR-SEMIFIXED-CHIP	1/10W B30KΩ-N CARRIER DEV ADJ
VR2009	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N CARRIER DEV ADJ
VR2010	127C220090	VR-SEMIFIXED-CHIP	1/10W B20KΩ-N CARRIER DEV ADJ
VR2201	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N
VR2202	127C220060	VR-SEMIFIXED-CHIP	1/10W B3KΩ-N S-VHS MODE MAIN EMPH IN LEVEL ADJ
VR2203	127C220060	VR-SEMIFIXED-CHIP	1/10W B3KΩ-N PB DEMO SENS & PB LEVEL
VR301	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N PB AUDIO LEVEL ADJ
VR302	127C221010	VR-SEMIFIXED-CHIP	1/10W B50KΩ-N BIAS LEVEL ADJ
VR5A1	127C251020	VR-SEMIFIXED-CHIP	1/5W B100K
VR5FA	127C220050	VR-SEMIFIXED-CHIP	1/10W B2KΩ-N ALC ADJ
VR601	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N CHROMA CARRIER LEAK ADJ

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
VR602	127C221010	VR-SEMIFIXED-CHIP	1/10W B50KΩ-N AMPLI LEVEL OF PILOT BURST ADJ
VR603	127C220040	VR-SEMIFIXED-CHIP	1/10W B1KΩ-N C-NR ADJ
VR8A4	120C276000	VR-PCB	1/2W B10KΩ-8.5F
VR8000	127C251030	VR-SEMIFIXED-CHIP	1/5W B200K JITTER OF MODE INDICAT STILL ADJ
VR8500	127C251040	VR-SEMIFIXED-CHIP	1/5W B300K BATT DETEC CIRCUIT ADJ
VR920	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N POWER CIRCUIT ADJ
VR940	127C220070	VR-SEMIFIXED-CHIP	1/10W B5KΩ-N POWER CIRCUIT ADJ
VR960	127C220080	VR-SEMIFIXED-CHIP	1/10W B10KΩ-N POWER CIRCUIT ADJ

RESISTORS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 0SA	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SB	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SH	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SM	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SN	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 0SP	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0SQ	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 0SS	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 0ST	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 0SV	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 0SX	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 0SY	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 0SZ	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 0TA	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 0TB	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 0TH	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 0TJ	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 0TK	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 0TL	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 0TM	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 0TN	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 0TP	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 0TR	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 0TS	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 0TT	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 0TU	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 0TV	103P500050	CHIP RESISTOR	1/20W 22Ω-J
R 0TW	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 0TX	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 0TY	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 0TZ	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 0UA	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 0UC	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 0UD	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 0UE	103P504010	CHIP RESISTOR	1/20W 22KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 0UF	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 0UG	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 0UH	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 0UJ	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 0UY	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 0VB	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 0VC	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 0VE	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 0VF	103P409050	CHIP RESISTOR	1/10W0Ω
R 201	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 202	103P501050	CHIP RESISTOR	1/20W 150Ω-J
R 203	103P509050	CHIP RESISTOR	0Ω RM1608
R 204	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 205	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 206	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 207	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 208	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 209	103P502030	CHIP RESISTOR	1/16W 680Ω-J
R 210	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 211	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 212	103P502060	CHIP RESISTOR	1/16W 1.2KΩ-J
R 213	103P509050	CHIP RESISTOR	0Ω RM1608
R 214	103P509050	CHIP RESISTOR	0Ω RM1608
R 215	103P502020	CHIP RESISTOR	1/16W 560Ω-J
R 221	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 222	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 231	103P501000	CHIP RESISTOR	1/20W 56Ω-J
R 232	103P401040	CHIP RESISTOR	1/10W 120Ω-J
R 233	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 234	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 235	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 236	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 237	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 238	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 240	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 241	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 242	103P401040	CHIP RESISTOR	1/10W 120Ω-J
R 243	103P501000	CHIP RESISTOR	1/20W 56Ω-J
R 244	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 245	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 246	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 247	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 248	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 249	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 250	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 251	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 252	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 253	103P401040	CHIP RESISTOR	1/10W 120Ω-J
R 254	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 255	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 256	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 257	103P402050	CHIP RESISTOR	1/10W1KΩ-J
R 258	103P402050	CHIP RESISTOR	1/10W1KΩ-J
R 259	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 260	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 261	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 262	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 263	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 267	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 268	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 271	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 272	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 273	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 274	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 275	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 276	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 277	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 278	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 279	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 280	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 281	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 282	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 283	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 284	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 285	103P401040	CHIP RESISTOR	1/10W 120Ω-J
R 286	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 291	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 292	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 293	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 294	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 295	103P409050	CHIP RESISTOR	1/10W 0Ω RM1608
R 2AA	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2AB	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2AC	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2AD	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2AE	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 2AF	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2AG	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2AH	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2AJ	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2AK	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2AL	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2AN	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2AP	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2AQ	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2AR	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2AS	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2AT	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2AV	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2AW	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2AY	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2AZ	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2BB	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2BC	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2BD	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2BE	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2BF	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2BG	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2BH	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 2BJ	103P503080	CHIP RESISTOR	1/20W 12KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2BK	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 2BL	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2BM	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2BN	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2BP	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2BQ	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2BS	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 2BT	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2BU	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2BV	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2BW	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2BX	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2BZ	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2CC	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2CD	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2CE	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2CF	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 2CG	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 2CH	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2CJ	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2CK	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2CL	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 2CM	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2CN	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2CP	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2CR	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2CS	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2CT	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2CU	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2CV	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2CW	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2CX	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2CY	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2D0	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 2D1	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2D4	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2D5	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2D6	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2D7	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2D8	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2D9	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 2DA	103P503020	CHIP RESISTOR	1/16W 3.9KΩ-J
R 2DB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2DC	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DD	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DE	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2DF	103P504010	CHIP RESISTOR	1/16W 22KΩ-J
R 2DG	103P509050	CHIP RESISTOR	0Ω RM1608
R 2DH	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2DJ	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2DK	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DL	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2DM	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2DN	103P503020	CHIP RESISTOR	1/16W 3.9KΩ-J
R 2DP	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2DS	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DT	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2DU	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2DW	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2DX	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2E0	103P509050	CHIP RESISTOR	0Ω RM1608
R 2E2	103P509050	CHIP RESISTOR	0Ω RM1608
R 2E4	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2E5	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2E6	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2E7	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2EG	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2EH	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2EJ	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2EK	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2EL	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2EM	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2EN	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2EP	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2EQ	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2EY	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2GA	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2GB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2GC	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2GD	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2GE	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2GF	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 2GG	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2GH	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2GJ	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 2GK	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2GL	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2GN	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 2GR	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2GS	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2GT	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2GU	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2GV	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2GW	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2GX	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2GY	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2GZ	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2H7	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2H8	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2H9	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2HA	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2HB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2HC	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2HD	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2HJ	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HK	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HL	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 2HM	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2HN	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HP	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2HQ	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 2HR	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2HS	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HT	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2HU	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 2HV	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HW	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 2HX	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2HY	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2HZ	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2J0	103P509050	CHIP RESISTOR	0Ω RM1608
R 2J2	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2J3	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2JA	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JB	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2JC	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2JD	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JE	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2JF	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JG	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2JH	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JJ	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2JK	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2JL	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2JV	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2JX	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2JY	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2JZ	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2KA	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2KF	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2KG	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2KH	103P509050	CHIP RESISTOR	0Ω RM1608
R 2KJ	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2KK	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2KL	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2KM	103P501060	CHIP RESISTOR	1/20W 180Ω-J
R 2KP	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2KQ	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2KR	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2KS	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2KZ	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L0	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2L1	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L2	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L3	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L4	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L5	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2L6	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2L7	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2LA	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2LF	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2LG	103P500080	CHIP RESISTOR	1/20W 39Ω-J
R 2LH	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 2LJ	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2LK	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2LL	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2LM	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2LN	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2LP	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2LV	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2LW	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2MD	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2MP	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2MQ	103P509050	CHIP RESISTOR	0Ω RM1608
R 2MR	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2MU	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2NB	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2NC	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2NE	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2NH	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2NJ	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2NK	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2NL	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2NN	103P505020	CHIP RESISTOR	1/20W 180KΩ-J
R 2P0	103P501050	CHIP RESISTOR	1/20W 150Ω-J
R 2P1	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2P2	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2P3	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2P4	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2P5	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2P6	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2P7	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2P8	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 2P9	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2PA	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2PD	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2PF	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2PG	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2PH	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2PJ	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2PK	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2PL	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2PM	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2PN	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2PP	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2PQ	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2PR	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2PS	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2PT	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2PU	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2PV	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2Q0	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2Q1	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2Q2	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2Q3	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2Q4	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2Q5	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2Q6	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2RA	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2RB	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2RC	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2RD	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2RE	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2RF	103P509050	CHIP RESISTOR	0Ω RM1608
R 2RG	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2RH	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 2RJ	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2RK	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2RL	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2RN	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2RP	103P509050	CHIP RESISTOR	0Ω RM1608
R 2RS	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 2RT	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2RU	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2RV	103P505040	CHIP RESISTOR	1/20W 270KΩ-J
R 2RW	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2RX	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2RY	103P509050	CHIP RESISTOR	0Ω RM1608
R 2RZ	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2S1	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2S2	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2S3	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2S4	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2S5	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2S6	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2S7	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2S8	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2S9	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2SD	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2SE	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2SF	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2SG	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2SH	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 2SJ	103P502060	CHIP RESISTOR	1/16W 1.2KΩ-J
R 2SK	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2SL	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2SM	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2SN	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2SP	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2SQ	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2SR	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2SS	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2ST	103P501040	CHIP RESISTOR	1/20W 120Ω-J
R 2SU	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2SV	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2SW	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 2T0	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2T1	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2T2	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2T3	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 2T4	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 2T5	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2T6	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2T7	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2T8	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2T9	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2U0	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 2U1	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 2X0	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2X1	103P501020	CHIP RESISTOR	1/20W 82Ω-J
R 2X3	103P501020	CHIP RESISTOR	1/20W 82Ω-J
R 2X4	103P509090	CHIP RESISTOR	1/20W 75Ω-J
R 2X5	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 2X6	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 2ZA	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2ZB	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2ZC	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2ZE	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 2ZG	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2ZH	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2ZJ	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2ZK	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2ZL	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2ZM	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2ZN	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2ZP	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 2ZQ	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2ZR	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2ZS	103P509050	CHIP RESISTOR	0Ω RM1608
R 2007	103P504050	CHIP RESISTOR	1/16W 47KΩ-J
R 2012	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2013	103P502080	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2014	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2015	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2016	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2017	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2018	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2019	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 2021	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2022	103P502020	CHIP RESISTOR	1/16W 560Ω-J
R 2024	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2025	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2026	103P502030	CHIP RESISTOR	1/16W 680Ω-J
R 2029	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2031	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2032	103P509050	CHIP RESISTOR	0Ω RM1608
R 2033	103P509050	CHIP RESISTOR	0Ω RM1608
R 2034	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2035	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2036	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2039	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2040	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2041	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 2043	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2044	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 2045	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 2051	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2053	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2054	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2056	103P503070	CHIP RESISTOR	1/20W 10KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 2058	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2059	103P509050	CHIP RESISTOR	0Ω RM1608
R 2061	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 2080	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2081	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 2082	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 2101	103P502010	CHIP RESISTOR	1/16W 470Ω-J
R 2102	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 2103	103P501030	CHIP RESISTOR	1/16W 100Ω-J
R 2104	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2105	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 2106	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 2107	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 2108	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2109	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 2110	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2111	103P503080	CHIP RESISTOR	1/16W 12KΩ-J
R 2112	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2113	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 2114	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2115	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2116	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2117	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2118	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2119	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 2121	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2122	103P502040	CHIP RESISTOR	1/20W 820Ω-J
R 2123	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2124	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 2132	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 2133	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 2214	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2215	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2216	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 2401	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2402	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2403	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 2404	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2405	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 2406	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 2407	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 2408	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 2409	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 301	103P506040	CHIP RESISTOR	1/20W 1.8MΩ-K
R 302	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 303	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 304	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 305	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 306	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 307	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 309	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 310	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 311	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 312	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 313	103P502030	CHIP RESISTOR	1/20W 680Ω-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 314	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 315	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 316	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 317	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 318	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 319	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 320	103P501040	CHIP RESISTOR	1/20W 120Ω-J
R 321	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 322	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 323	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 324	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 325	103P501010	CHIP RESISTOR	1/20W 68Ω-J
R 326	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 327	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 328	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 329	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 330	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 331	103P508080	CHIP RESISTOR	1/20W 4.7Ω-K
R 332	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 333	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 334	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 335	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 336	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 337	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 338	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 339	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 340	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 341	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 342	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 343	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 344	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 345	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 346	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 347	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 348	103P509050	CHIP RESISTOR	0Ω RM1608
R 349	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 350	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 3AA	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 3AB	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 3301	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 3302	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 3303	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 3309	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 3310	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 3311	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 3312	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 3313	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 3314	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 3317	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 3321	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 3323	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 3324	103P509050	CHIP RESISTOR	0Ω RM1608
R 401	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 402	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 403	103P500070	CHIP RESISTOR	1/20W 33Ω-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 404	103P500070	CHIP RESISTOR	1/20W 33Ω-J
R 405	103P500070	CHIP RESISTOR	1/20W 33Ω-J
R 406	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 407	103P500070	CHIP RESISTOR	1/20W 33Ω-J
R 408	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 409	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 410	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 411	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 412	103P505050	CHIP RESISTOR	1/20W 330KΩ-J
R 413	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 420	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 421	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 422	103P505050	CHIP RESISTOR	1/20W 330KΩ-J
R 423	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 424	103P505050	CHIP RESISTOR	1/20W 330KΩ-J
R 425	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 426	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 427	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 428	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 429	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 430	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 431	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 432	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 433	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 434	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 435	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 436	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 437	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 438	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 439	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 440	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 441	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 442	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 443	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 449	103P506000	CHIP RESISTOR	1/20W 820KΩ-J
R 450	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 451	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 452	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 453	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 454	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 455	103P508040	CHIP RESISTOR	1/20W 2.2Ω-K
R 456	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 457	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 458	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 459	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 460	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 461	103P408050	CHIP RESISTOR	1/10W 2.7Ω-K
R 462	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 463	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 464	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 480	103P500010	CHIP RESISTOR	1/20W 10Ω-J
R 481	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 482	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 483	103P508080	CHIP RESISTOR	1/20W 4.7Ω-K
R 4A0	103P504090	CHIP RESISTOR	1/20W 100KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 4A1	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 4A2	103P505040	CHIP RESISTOR	1/20W 270KΩ-J
R 4A3	103P505030	CHIP RESISTOR	1/20W 220KΩ-J
R 4A4	103P504060	CHIP RESISTOR	1/16W 56KΩ-J
R 4A5	103P505010	CHIP RESISTOR	1/20W 150KΩ-J
R 4A6	103P505050	CHIP RESISTOR	1/20W 330KΩ-J
R 4A7	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 4A8	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4B0	103P504010	CHIP RESISTOR	1/16W 22KΩ-J
R 4B1	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4B2	103P503040	CHIP RESISTOR	1/16W 5.6KΩ-J
R 4B3	103P505010	CHIP RESISTOR	1/20W 150KΩ-J
R 4B4	103P505010	CHIP RESISTOR	1/20W 150KΩ-J
R 4B5	103P505030	CHIP RESISTOR	1/20W 220KΩ-J
R 4B6	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 4B7	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 4B8	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4C0	103P502020	CHIP RESISTOR	1/20W 560Ω-J
R 4C1	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 4C3	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4C4	103P474090	CHIP RESISTOR	1/10W10K-F
R 4C5	103P474090	CHIP RESISTOR	1/10W10K-F
R 4C6	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4C7	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4C8	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4C9	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4F0	103P352070	CHIP RESISTOR	1/8W1.5KΩ-J
R 4F1	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4F3	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4F4	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4001	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 4003	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 4004	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 4005	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 4006	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 4007	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4010	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 4015	109P107020	CHIP NETWORK	1/32W 15K-J
R 4016	109P107080	CHIP NETWORK	1/32W 330K-J
R 4017	109P107080	CHIP NETWORK	1/32W 330K-J
R 4020	103P509050	CHIP RESISTOR	0Ω RM1608
R 4021	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4023	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4025	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 4026	103P473040	CHIP RESISTOR	1/10W2.4K-F
R 4027	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 4028	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 571	103P352000	CHIP RESISTOR	1/8W390Ω-J
R 572	103P359050	CHIP RESISTOR	1/8W 0Ω
R 5A0	103P476050	CHIP RESISTOR	1/10W47K-F
R 5A1	103P476050	CHIP RESISTOR	1/10W47K-F
R 5A2	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 5A3	103P476050	CHIP RESISTOR	1/10W47K-F
R 5A4	103P476070	CHIP RESISTOR	1/10W56K-F
R 5A5	103P505070	CHIP RESISTOR	1/20W 470KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 5A6	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 5B3	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B4	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B5	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B6	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B7	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B8	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5B9	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5C0	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 5C1	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 5C2	103P505020	CHIP RESISTOR	1/20W 180KΩ-J
R 5C3	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 5C4	103P505020	CHIP RESISTOR	1/20W 180KΩ-J
R 5C5	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 5C7	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5D1	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5D2	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 5D3	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 5D4	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5D5	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 5D6	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 5D7	103P401050	CHIP RESISTOR	1/10W150Ω-J
R 5D8	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5D9	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 5F0	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 5F1	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 5F2	103P505040	CHIP RESISTOR	1/20W 270KΩ-J
R 5F3	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 5F4	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 5F5	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 5F6	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 5FA	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 5FC	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 5FD	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 5FE	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 5FF	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 5FG	103P505090	CHIP RESISTOR	1/20W 680KΩ-J
R 5FH	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 5FJ	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 5FK	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 5FL	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 5H0	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 5H1	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 5H7	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 5H8	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5H9	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 5J0	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 5J1	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 5J2	103P401040	CHIP RESISTOR	1/10W120Ω-J
R 601	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 602	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 603	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 604	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 605	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 606	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 607	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 608	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 609	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 610	103P505070	CHIP RESISTOR	1/20W 470KΩ-J
R 611	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 612	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 613	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 614	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 615	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 616	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 617	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 618	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 619	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 620	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 621	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 622	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 623	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 624	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 625	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 626	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 627	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 628	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 631	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 632	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 633	103P501080	CHIP RESISTOR	1/20W 270Ω-J
R 634	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 635	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 636	103P504040	CHIP RESISTOR	1/20W 39KΩ-J
R 637	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 638	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 639	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 640	103P501090	CHIP RESISTOR	1/16W 330Ω-J
R 641	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 642	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 643	103P503040	CHIP RESISTOR	1/20W 5.6KΩ-J
R 644	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 645	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 646	103P501070	CHIP RESISTOR	1/16W 220Ω-J
R 647	103P501060	CHIP RESISTOR	1/20W 180Ω-J
R 648	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 649	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 650	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 651	103P504080	CHIP RESISTOR	1/20W 82KΩ-J
R 653	103P509050	CHIP RESISTOR	0Ω RM1608
R 654	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 655	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 656	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 657	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 658	103P502010	CHIP RESISTOR	1/20W 470Ω-J
R 659	103P501040	CHIP RESISTOR	1/16W 120Ω-J
R 660	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 661	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 662	103P359050	CHIP RESISTOR	1/8W 0Ω
R 663	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 664	103P501090	CHIP RESISTOR	1/20W 330Ω-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 665	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 666	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 667	103P501090	CHIP RESISTOR	1/20W 330Ω-J
R 668	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 669	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 670	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 671	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 7CD	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CE	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CF	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CG	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CL	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CM	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CN	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CQ	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CR	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CS	103P509050	CHIP RESISTOR	0Ω RM1608
R 7CV	103P509050	CHIP RESISTOR	0Ω RM1608
R 7DA	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 7DB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7DC	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7DD	103P509050	CHIP RESISTOR	0Ω RM1608
R 7DE	103P509050	CHIP RESISTOR	0Ω RM1608
R 7DF	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 7DG	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 7FP	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 7GM	103P509050	CHIP RESISTOR	0Ω RM1608
R 7LL	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 7LP	103P509050	CHIP RESISTOR	0Ω RM1608
R 7MA	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7MB	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 7MC	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 7MD	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 7PA	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 7PB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7SA	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 7SB	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 7TA	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7TB	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7TP	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 7ZA	103P473050	CHIP RESISTOR	1/10W 2.7K-F
R 7ZB	103P474010	CHIP RESISTOR	1/10W 4.7K-F
R 7ZC	103P509050	CHIP RESISTOR	0Ω RM1608
R 7ZD	103P474090	CHIP RESISTOR	1/10W10K-F
R 7ZE	103P474010	CHIP RESISTOR	1/10W 4.7K-F
R 7ZP	103P351080	CHIP RESISTOR	1/8W 270Ω-J
R 7ZQ	103P351080	CHIP RESISTOR	1/8W 270Ω-J
R 8A1	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8A2	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8A3	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8A4	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8A6	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8A7	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8A8	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8A9	103P504090	CHIP RESISTOR	1/20W 100KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 8B0	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8B1	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8B2	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8B3	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8C5	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 8C6	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 8C7	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 8C8	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8000	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8001	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8002	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 8003	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8004	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8005	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8006	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8007	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8008	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8009	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8010	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 8011	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8012	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8013	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8014	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8016	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8017	103P501030	CHIP RESISTOR	1/20W 100Ω-J
R 8018	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 8019	103P504020	CHIP RESISTOR	1/20W 27KΩ-J
R 8021	103P503010	CHIP RESISTOR	1/20W 3.3KΩ-J
R 8022	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 8023	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 8025	103P501070	CHIP RESISTOR	1/20W 220Ω-J
R 8026	103P502030	CHIP RESISTOR	1/20W 680Ω-J
R 8027	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8028	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8029	103P503090	CHIP RESISTOR	1/20W 15KΩ-J
R 8501	103P405050	CHIP RESISTOR	1/10W330KΩ-J
R 8502	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 8702	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8703	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8704	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8705	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8706	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8707	103P504030	CHIP RESISTOR	1/20W 33KΩ-J
R 8708	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8709	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8710	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8711	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8712	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8713	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8714	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8715	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8716	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8717	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8718	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8719	103P504050	CHIP RESISTOR	1/20W 47KΩ-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 8721	103P509050	CHIP RESISTOR	0Ω RM1608
R 8730	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 8731	103P506050	CHIP RESISTOR	1/20W 2.2MΩ-J
R 8732	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8733	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8734	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 8735	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 8736	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8737	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8738	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 8739	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8741	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8743	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8744	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8745	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8746	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8747	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8748	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8749	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8750	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8751	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8752	103P505080	CHIP RESISTOR	1/20W 560KΩ-J
R 8753	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8754	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 8755	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 8756	103P503020	CHIP RESISTOR	1/20W 3.9KΩ-J
R 8757	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 8760	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 8761	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 900	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 901	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 902	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 903	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 904	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 909	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 910	103P352040	CHIP METAL	1/8W 820Ω-J
R 911	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 912	103P352040	CHIP METAL	1/8W 820Ω-J
R 913	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 914	103P352040	CHIP METAL	1/8W 820Ω-J
R 915	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 916	103P352040	CHIP METAL	1/8W 820Ω-J
R 917	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 918	103P352040	CHIP METAL	1/8W 820Ω-J
R 919	103P502000	CHIP RESISTOR	1/20W 390Ω-J
R 920	103P352040	CHIP METAL	1/8W 820Ω-J
R 921	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 922	103P504000	CHIP RESISTOR	1/20W 18KΩ-J
R 923	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 930	103P502070	CHIP RESISTOR	1/20W 1.5KΩ-J
R 931	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 932	103P503060	CHIP RESISTOR	1/20W 8.2KΩ-J
R 933	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 934	103P401030	CHIP RESISTOR	1/10W100Ω-J
R 935	103P501090	CHIP RESISTOR	1/20W 330Ω-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
R 936	103P502060	CHIP RESISTOR	1/20W 1.2KΩ-J
R 937	103P503050	CHIP RESISTOR	1/20W 6.8KΩ-J
R 938	103P503080	CHIP RESISTOR	1/20W 12KΩ-J
R 939	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 941	103P475050	CHIP RESISTOR	1/10W18K-F
R 943	103P475050	CHIP RESISTOR	1/10W18K-F
R 950	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 951	103P502090	CHIP RESISTOR	1/20W 2.2KΩ-J
R 952	103P506010	CHIP RESISTOR	1/20W 1MΩ-J
R 953	103P503000	CHIP RESISTOR	1/20W 2.7KΩ-J
R 954	103P503030	CHIP RESISTOR	1/20W 4.7KΩ-J
R 955	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 957	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 959	103P409050	CHIP RESISTOR	1/10W0Ω
R 960	103P504070	CHIP RESISTOR	1/20W 68KΩ-J
R 961	103P504010	CHIP RESISTOR	1/20W 22KΩ-J
R 962	103P500090	CHIP RESISTOR	1/20W 47Ω-J
R 964	103P504060	CHIP RESISTOR	1/20W 56KΩ-J
R 965	103P503070	CHIP RESISTOR	1/20W 10KΩ-J
R 966	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 967	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 970	103P505000	CHIP RESISTOR	1/20W 120KΩ-J
R 971	103P505020	CHIP RESISTOR	1/20W 180KΩ-J
R 972	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 973	103P504050	CHIP RESISTOR	1/20W 47KΩ-J
R 974	103P504090	CHIP RESISTOR	1/20W 100KΩ-J
R 975	103P505090	CHIP RESISTOR	1/20W 680KΩ-J
R 984	103P475050	CHIP RESISTOR	1/10W18K-F
R 985	103P479010	CHIP RESISTOR	1/10W560K-F
R 986	103P502050	CHIP RESISTOR	1/20W 1KΩ-J
R 990	103P502030	CHIP RESISTOR	1/20W 680Ω-J

CAPACITORS AND TRIMMERS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	154P334030	CERAMIC CHIP	CH50V220PJ
C 0SG	154P341050	CERAMIC CHIP	CH50V 15P-J
C 0SK	154P341050	CERAMIC CHIP	CH50V 15P-J
C 0SL	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0SM	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 0SN	154P341050	CERAMIC CHIP	CH50V 15P-J
C 0SP	154P341030	CERAMIC CHIP	CH50V 12P-J
C 0SR	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0SS	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0ST	154P343030	CERAMIC CHIP	CH50V 82P-J
C 0SU	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0SV	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 0SX	154P342050	CERAMIC CHIP	CH50V 39P-J
C 0TA	154P342050	CERAMIC CHIP	CH50V 39P-J
C 0TB	154P341090	CERAMIC CHIP	CH50V 22P-J
C 0TC	154P342070	CERAMIC CHIP	CH50V 47P-J
C 0TH	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TK	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 0TL	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0TM	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 0TN	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TP	141P143050	CERAMIC CHIP	F50V 1000P-Z
C 0TQ	181P506010	ELECTROLYTIC CHIP	50V1μF-M
C 0TR	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TT	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0TU	181P505000	ELECTROLYTIC CHIP	04W35V 10μF-M
C 0TV	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0TY	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0TZ	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0UA	181P504090	ELECTROLYTIC CHIP	35V4.7μF-M
C 0UB	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0UC	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M
C 0UE	181P505010	ELECTROLYTIC CHIP	35V22μF-M
C 0UG	181P506010	ELECTROLYTIC CHIP	50V1μF-M
C 0UH	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 0UK	181P503090	ELECTROLYTIC CHIP	25V33μF-M
C 0UL	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0UM	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0UN	181P504090	ELECTROLYTIC CHIP	35V4.7μF-M
C 0UQ	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0UR	181P503090	ELECTROLYTIC CHIP	25V33μF-M
C 0UW	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VB	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VC	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VD	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VE	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VF	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VG	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VH	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VJ	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 0VL	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 0VM	141P140090	CERAMIC CHIP	B50V 1000P-K
C 0VN	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 0VR	141P140090	CERAMIC CHIP	B50V 1000P-K
C 201	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 202	154P355060	CERAMIC CHIP	SL25V 680P-J
C 203	154P354000	CERAMIC CHIP	SL50V 150P-J
C 204	154P352060	CERAMIC CHIP	SL50V 39P-J
C 205	154P354040	CERAMIC CHIP	SL50V 220P-J
C 206	154P354020	CERAMIC CHIP	SL50V 180P-J
C 207	154P353060	CERAMIC CHIP	SL50V 100P-J
C 208	154P354040	CERAMIC CHIP	SL50V 220P-J
C 209	154P351010	CERAMIC CHIP	SL50V 9P-C
C 210	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 211	154P353000	CERAMIC CHIP	SL50V 56P-J
C 212	154P354080	CERAMIC CHIP	SL50V 330P-J
C 219	154P352000	CERAMIC CHIP	SL50V 22P-J
C 220	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 221	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 222	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 223	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 224	154P353040	CERAMIC CHIP	SL50V 82P-J
C 225	154P354000	CERAMIC CHIP	SL50V 150P-J
C 226	154P352020	CERAMIC CHIP	SL50V 27P-J
C 227	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 228	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 229	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 230	141P136030	CERAMIC CHIP	F16V1μF-Z
C 231	141P136030	CERAMIC CHIP	F16V1μF-Z
C 232	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 233	141P140090	CERAMIC CHIP	B50V 1000P-K
C 234	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 235	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 236	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 237	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 238	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 239	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 248	141P135080	CERAMIC CHIP	F50V 0.1μF-Z
C 249	141P135080	CERAMIC CHIP	F50V 0.1μF-Z
C 250	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 251	141P136030	CERAMIC CHIP	F16V1μF-Z
C 271	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M
C 272	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M
C 273	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 278	141P136030	CERAMIC CHIP	F16V1μF-Z
C 279	141P136030	CERAMIC CHIP	F16V1μF-Z
C 280	141P136030	CERAMIC CHIP	F16V1μF-Z
C 281	141P136030	CERAMIC CHIP	F16V1μF-Z
C 282	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 283	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 284	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 285	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 291	154P352080	CERAMIC CHIP	SL50V 47P-J
C 292	141P136030	CERAMIC CHIP	F16V1μF-Z
C 293	141P136030	CERAMIC CHIP	F16V1μF-Z
C 294	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 295	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AA	189P122010	TANTALUM CHIP	10V2.2μF-M
C 2AB	189P122030	TANTALUM CHIP	10V4.7μF-M
C 2AC	141P135090	CERAMIC CHIP	F25V0.22μF-Z
C 2AD	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AE	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2AF	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AG	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AH	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AJ	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AK	141P134010	CERAMIC CHIP	F50V0.047M
C 2AL	141P134010	CERAMIC CHIP	F50V0.047M
C 2AM	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AN	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AP	141P134010	CERAMIC CHIP	F50V0.047M
C 2AQ	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2AR	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2AS	181P508000	ELECTROLYTIC CHIP	04W4V 100μF-M
C 2AT	141P134010	CERAMIC CHIP	F50V0.047M
C 2AU	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2AV	141P135090	CERAMIC CHIP	F25V0.22μF-Z
C 2AW	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2AX	141P143080	CERAMIC CHIP	F50V 0.01μF-Z

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2AY	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 2AZ	154P343050	CERAMIC CHIP	CH50V 100P-J
C 2BA	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2BB	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2BD	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2BE	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2BG	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BJ	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2BK	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BL	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BM	189P121060	TANTALUM CHIP	6.3V22μF-M
C 2BN	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2BP	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BQ	181P512020	ELECTROLYTIC CHIP	04W16V4.7μF-M
C 2BR	189P123070	TANTALUM CHIP	16V10μF-M
C 2BS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2BU	154P355000	CERAMIC CHIP	SL50V 390P-J
C 2BV	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 2BX	181P507080	ELECTROLYTIC CHIP	4V33μF-M
C 2BY	189P123070	TANTALUM CHIP	16V10μF-M
C 2BZ	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2CA	181P510010	ELECTROLYTIC CHIP	04W6.3V22μF-M
C 2CD	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 2CE	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2CG	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 2CH	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2CJ	181P507080	ELECTROLYTIC CHIP	4V33μF-M
C 2CK	154P342090	CERAMIC CHIP	CH50V 56P-J
C 2CL	154P342090	CERAMIC CHIP	CH50V 56P-J
C 2CM	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2CN	154P342090	CERAMIC CHIP	CH50V 56P-J
C 2CP	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2CR	189P122030	TANTALUM CHIP	10V4.7μF-M
C 2CS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2CU	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2CV	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2CW	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 2CX	181P510010	ELECTROLYTIC CHIP	04W6.3V22μF-M
C 2CY	189P122030	TANTALUM CHIP	10V4.7μF-M
C 2CZ	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2D0	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 2D1	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D2	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D3	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D5	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2D6	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D7	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2D8	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2D9	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2DA	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2DB	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2DC	189P122030	TANTALUM CHIP	10V4.7μF-M
C 2DD	154P344030	CERAMIC CHIP	CH50V 220P-J
C 2DG	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2DJ	189P123040	TANTALUM CHIP	16V3.3M
C 2E0	154P344050	CERAMIC CHIP	CH50V 270P-J
C 2E1	154P342070	CERAMIC CHIP	CH50V 47P-J
C 2E2	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2E3	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 2E4	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2E5	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2E6	154P354040	CERAMIC CHIP	SL50V 220P-J
C 2E7	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2G0	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 2JF	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2JG	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JH	141P133080	CERAMIC CHIP	F50V0.01μF-Z
C 2JJ	141P133080	CERAMIC CHIP	F50V0.01μF-Z
C 2JM	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JN	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JP	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 2JR	141P134010	CERAMIC CHIP	F50V0.047M
C 2JS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2JT	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 2JU	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JV	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2JW	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2JX	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2JY	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2JZ	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KA	154P343030	CERAMIC CHIP	CH50V 82P-J
C 2KB	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KC	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KD	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2KE	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KH	181P507080	ELECTROLYTIC CHIP	4V33μF-M
C 2KJ	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2KP	154P343050	CERAMIC CHIP	CH50V 100P-J
C 2KR	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2KS	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2KT	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2KU	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2L2	154P351040	CERAMIC CHIP	SL50V 12P-C
C 2L3	154P354040	CERAMIC CHIP	SL50V 220P-J
C 2L4	154P353040	CERAMIC CHIP	SL50V 82P-J
C 2LA	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2LE	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2LF	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2LG	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2LH	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2LP	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2LQ	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2LS	154P341010	CERAMIC CHIP	CH50V 10P-C
C 2LX	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2M0	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2MC	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2ME	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MF	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2MG	154P342010	CERAMIC CHIP	CH50V 27P-J
C 2MJ	154P342010	CERAMIC CHIP	CH50V 27P-J

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 2ML	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MM	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MS	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2MT	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 2MU	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 2MV	154P341030	CERAMIC CHIP	CH50V 12P-J
C 2MW	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MX	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2MY	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2NA	154P341010	CERAMIC CHIP	CH50V 10P-C
C 2NB	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2NC	154P341030	CERAMIC CHIP	CH50V 12P-J
C 2ND	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2NE	189P123040	TANTALUM CHIP	16V3.3M
C 2NG	189P123070	TANTALUM CHIP	16V10μF-M
C 2NH	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2P0	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 2P1	154P343010	CERAMIC CHIP	CH50V 68P-J
C 2P2	154P343070	CERAMIC CHIP	CH50V 120P-J
C 2P3	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 2P4	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 2P5	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2P6	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2P7	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2S0	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2S1	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2S2	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2S3	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 2S4	141P136030	CERAMIC CHIP	F25V 1μF-Z
C 2S5	154P342090	CERAMIC CHIP	CH50V 56P-J
C 2S6	154P344030	CERAMIC CHIP	CH50V 220P-J
C 2S7	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2T0	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2T1	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2T2	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2T3	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2X0	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 2ZA	154P341030	CERAMIC CHIP	CH50V 12P-J
C 2ZB	154P341030	CERAMIC CHIP	CH50V 12P-J
C 2004	154P353000	CERAMIC CHIP	SL50V 56P-J
C 2005	154P352020	CERAMIC CHIP	SL50V 27P-J
C 2010	154P355000	CERAMIC CHIP	SL50V 390P-J
C 2011	154P353000	CERAMIC CHIP	SL50V 56P-J
C 2012	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2014	154P351020	CERAMIC CHIP	SL50V 10P-J
C 2015	154P352040	CERAMIC CHIP	SL50V 33P-J
C 2016	154P354080	CERAMIC CHIP	SL50V 330P-J
C 2019	154P353080	CERAMIC CHIP	SL50V 100P-J
C 2022	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2023	189P125010	TANTALUM CHIP	25V
C 2025	189P125010	TANTALUM CHIP	25V
C 2026	189P125010	TANTALUM CHIP	25V
C 2027	181P506000	ELECTROLYTIC CHIP	50V0.47μF-M
C 2028	189P125010	TANTALUM CHIP	25V
C 2029	189P123070	TANTALUM CHIP	16V10μF-M
C 2030	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2031	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2032	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 2033	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2034	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 2037	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2038	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2039	141P143050	CERAMIC CHIP	F50V 1000P-Z
C 2040	141P143050	CERAMIC CHIP	F50V 1000P-Z
C 2050	154P352000	CERAMIC CHIP	SL50V 22P-J
C 2080	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2103	154P355020	CERAMIC CHIP	SL50V 470P-J
C 2104	154P354040	CERAMIC CHIP	SL50V 220P-J
C 2105	154P352040	CERAMIC CHIP	SL50V 33P-J
C 2106	154P355040	CERAMIC CHIP	SL25V 560P-J
C 2107	154P353000	CERAMIC CHIP	SL50V 56P-J
C 2108	154P353000	CERAMIC CHIP	SL50V 56P-J
C 2109	141P137040	CERAMIC CHIP	B25V0.022M
C 2110	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2111	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2112	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2113	154P351020	CERAMIC CHIP	SL50V 10P-J
C 2114	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2115	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2116	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2117	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2118	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2119	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2120	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 2210	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 2211	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 2213	154P352000	CERAMIC CHIP	SL50V 22P-J
C 2214	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2215	181P510010	ELECTROLYTIC CHIP	04W6.3V22μF-M
C 2401	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2402	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 2403	141P136030	CERAMIC CHIP	F16V1μF-Z
C 2404	141P136030	CERAMIC CHIP	F16V1μF-Z
C 301	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 302	181P510010	ELECTROLYTIC CHIP	04W6.3V22μF-M
C 303	181P506010	ELECTROLYTIC CHIP	50V1μF-M
C 304	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 305	141P136010	CERAMIC CHIP	F25V 0.47μF-Z
C 306	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 308	154P327060	CERAMIC CHIP	CH50V 4700PJ
C 310	141P140010	CERAMIC CHIP	B50V 220P-K
C 311	189P125010	TANTALUM CHIP	25V
C 312	154P355060	CERAMIC CHIP	SL25V 680P-J
C 313	154P327000	CERAMIC CHIP	SL50V 2700PJ
C 314	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 316	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 317	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 318	189P126030	TANTALUM CHIP	35V0.22M
C 319	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 320	141P142010	CERAMIC CHIP	B25V 0.01μF-K

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 321	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 322	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 323	189P096020	PLASTIC CHIP	100V 3300P-J
C 324	154P354040	CERAMIC CHIP	SL50V 220P-J
C 325	181P506030	ELECTROLYTIC CHIP	04W50V3.3μF-M
C 326	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 327	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 328	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 330	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 331	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 332	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 333	154P327060	CERAMIC CHIP	CH50V 4700PJ
C 3302	189P123010	TANTALUM CHIP	16V1μF-M
C 3312	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 3313	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 3314	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 3315	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 3316	189P120030	TANTALUM CHIP	4V10μF-M
C 3317	141P141050	CERAMIC CHIP	B50V 3300P-K
C 3318	189P126010	TANTALUM CHIP	35V0.1M
C 3319	141P140090	CERAMIC CHIP	B50V 1000P-K
C 3321	189P123010	TANTALUM CHIP	16V1μF-M
C 3AA	189P123040	TANTALUM CHIP	16V3.3M
C 400	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 401	141P139030	CERAMIC CHIP	B25V 0.1μF-K
C 402	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 403	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 404	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 405	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 406	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 407	181P506020	ELECTROLYTIC CHIP	04W50V2.2μF-M
C 408	181P506020	ELECTROLYTIC CHIP	04W50V2.2μF-M
C 409	181P506020	ELECTROLYTIC CHIP	04W50V2.2μF-M
C 410	189P122030	CERAMIC CHIP	10V4.7μF-M
C 420	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 421	154P343050	CERAMIC CHIP	CH50V 100P-J
C 422	181P506010	ELECTROLYTIC CHIP	50V1μF-M
C 423	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 424	141P140090	CERAMIC CHIP	B50V 1000P-K
C 425	181P506020	ELECTROLYTIC CHIP	04W50V2.2μF-M
C 426	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 427	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 428	154P355040	CERAMIC CHIP	SL25V 560P-J
C 429	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 430	141P136030	CERAMIC CHIP	F16V1μF-Z
C 431	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 432	141P141010	CERAMIC CHIP	B50V 1500P-K
C 434	141P134010	CERAMIC CHIP	F50V0.047M
C 435	141P136030	CERAMIC CHIP	F16V1μF-Z
C 436	141P140090	CERAMIC CHIP	B50V 1000P-K
C 450	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 451	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 452	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 453	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 454	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 455	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 456	141P136000	CERAMIC CHIP	F25V 0.33μF-Z
C 480	189P095010	POLYESTER	50V 0.033μF-J
C 481	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 482	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 483	141P141030	CERAMIC CHIP	B50V 2200P-K
C 4A0	141P141080	CERAMIC CHIP	B50V 5600P-K
C 4A1	141P137090	CERAMIC CHIP	B25V0.056M
C 4A2	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 4A3	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 4A4	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 4B0	141P140090	CERAMIC CHIP	B50V 1000P-K
C 4B1	141P140090	CERAMIC CHIP	B50V 1000P-K
C 4B2	141P132030	CERAMIC CHIP	B50V0.015M
C 4B3	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 4B4	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 4C0	181P516010	ELECTROLYTIC CHIP	04W 50V 1MBP
C 4C1	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 4F0	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 4F1	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4001	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 4002	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4004	154P341090	CERAMIC CHIP	CH50V 22P-J
C 4005	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4006	154P342010	CERAMIC CHIP	CH50V 27P-J
C 4007	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 4008	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4009	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 4010	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 4011	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 4012	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 4013	141P144000	CERAMIC CHIP	F25V0.033μF-Z
C 4014	154P340060	CERAMIC CHIP	CH50V 5P-C
C 4015	154P344030	CERAMIC CHIP	CH50V 220P-J
C 4016	154P343090	CERAMIC CHIP	CH50V 150P-J
C 5A0	141P137090	CERAMIC CHIP	B25V0.056M
C 5A2	141P132030	CERAMIC CHIP	B50V0.015M
C 5A5	141P140090	CERAMIC CHIP	B50V 1000P-K
C 5A6	154P324040	CERAMIC CHIP	SL50V220P-J
C 5B0	154P341070	CERAMIC CHIP	CH50V 18P-J
C 5B1	154P341070	CERAMIC CHIP	CH50V 18P-J
C 5B2	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 5B3	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 5B5	141P140030	CERAMIC CHIP	B50V 330P-K
C 5FA	189P123040	TANTALUM CHIP	16V3.3M
C 5FB	141P136030	CERAMIC CHIP	F16V1μF-Z
C 5FC	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 601	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 602	154P343050	CERAMIC CHIP	CH50V 100P-J
C 603	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 604	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 605	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 606	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 607	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 608	141P143080	CERAMIC CHIP	F50V 0.01μF-Z

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 609	141P136030	CERAMIC CHIP	F16V1μF-Z
C 610	141P136030	CERAMIC CHIP	F16V1μF-Z
C 611	141P136010	CERAMIC CHIP	F25V 0.47μF-Z
C 612	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 613	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 615	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 616	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 618	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 620	189P121010	TANTALUM CHIP	6.3V3.3μF-M
C 621	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 623	154P341010	CERAMIC CHIP	CH50V 10P-C
C 624	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 625	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 626	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 628	189P122030	TANTALUM CHIP	10V4.7μF-M
C 630	141P136030	CERAMIC CHIP	F16V1μF-Z
C 632	141P136030	CERAMIC CHIP	F16V1μF-Z
C 634	154P343050	CERAMIC CHIP	CH50V 100P-J
C 635	154P343050	CERAMIC CHIP	CH50V 100P-J
C 636	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 637	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 638	141P136010	CERAMIC CHIP	F25V 0.47μF-Z
C 639	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 640	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 641	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 642	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 643	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 644	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 645	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 646	154P343050	CERAMIC CHIP	CH50V 100P-J
C 647	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 648	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 649	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 650	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 651	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 652	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 653	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 654	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 655	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 656	141P136030	CERAMIC CHIP	F16V1μF-Z
C 657	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 658	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 659	141P136030	CERAMIC CHIP	F16V1μF-Z
C 660	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 661	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 662	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 663	141P136030	CERAMIC CHIP	F16V1μF-Z
C 666	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 667	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 668	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 669	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 670	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 7AA	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 7AB	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 7AC	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 7AD	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 7CD	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 7CE	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 7CL	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 7CM	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 7CN	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 7CP	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 7CR	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 7CS	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 7CV	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 7DA	154P342030	CERAMIC CHIP	CH50V 33P-J
C 7DB	154P342030	CERAMIC CHIP	CH50V 33P-J
C 7DC	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 7FP	141P136000	CERAMIC CHIP	F25V 0.33μF-Z
C 7GA	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 7GB	141P142010	CERAMIC CHIP	B25V 0.01μF-K
C 7LL	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 7MA	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 7PA	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 7PB	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 7PC	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 7PD	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 7PS	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 7ZA	141P136000	CERAMIC CHIP	F25V 0.33μF-Z
C 7ZB	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 8A1	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8A2	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 8A3	154P343050	CERAMIC CHIP	CH50V 100P-J
C 8A4	154P343050	CERAMIC CHIP	CH50V 100P-J
C 8A5	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8000	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8005	154P342010	CERAMIC CHIP	CH50V 27P-J
C 8006	154P340070	CERAMIC CHIP	CH50V 6P-C
C 8007	154P340080	CERAMIC CHIP	CH50V 7P-C
C 8008	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8010	141P140090	CERAMIC CHIP	B50V 1000P-K
C 8011	141P140090	CERAMIC CHIP	B50V 1000P-K
C 8012	154P342010	CERAMIC CHIP	CH50V 27P-J
C 8013	181P500010	ELECTROLYTIC CHIP	6.3V22-μF-M
C 8014	154P350070	CERAMIC CHIP	SL50V 5P-C
C 8015	141P134010	CERAMIC CHIP	F50V0.047M
C 8700	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 8701	181P500030	ELECTROLYTIC CHIP	04W6.3V47μF-M
C 8702	181P502030	ELECTROLYTIC CHIP	16V10μF-M
C 8703	154P342030	CERAMIC CHIP	CH50V 33P-J
C 8704	154P342030	CERAMIC CHIP	CH50V 33P-J
C 8705	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8706	181P506040	ELECTROLYTIC CHIP	04W50V4.7M
C 8707	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8708	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8709	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8710	141P143080	CERAMIC CHIP	F50V 0.01μF-Z
C 8711	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 8712	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 8713	141P135080	CERAMIC CHIP	F25V0.1μF-Z

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
C 8714	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 900	141P137040	CERAMIC CHIP	B25V0.022M
C 901	141P137040	CERAMIC CHIP	B25V0.022M
C 902	141P137040	CERAMIC CHIP	B25V0.022M
C 903	141P137040	CERAMIC CHIP	B25V0.022M
C 904	141P140050	CERAMIC CHIP	B50V 470P-K
C 905	154P343030	CERAMIC CHIP	CH50V 82P-J
C 906	154P355040	CERAMIC CHIP	SL25V 560P-J
C 907	141P136030	CERAMIC CHIP	F16V1μF-Z
C 923	141P136030	CERAMIC CHIP	F16V1μF-Z
C 924	141P136030	CERAMIC CHIP	F16V1μF-Z
C 925	141P136030	CERAMIC CHIP	F16V1μF-Z
C 926	141P131080	CERAMIC CHIP	B50V5600P-K
C 928	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 930	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 931	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 932	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 933	141P135080	CERAMIC CHIP	F25V0.1μF-Z
C 945	141P137040	CERAMIC CHIP	B25V0.022M
C 950	181P502060	ELECTROLYTIC CHIP	16V47μF-M
C 952	141P132090	CERAMIC CHIP	B50V0.047M
C 955	154P343070	CERAMIC CHIP	CH50V 120P-J
C 956	141P132090	CERAMIC CHIP	B50V 0.047μF-K
C 957	141P136030	CERAMIC CHIP	F16V1μF-Z
C 961	181P503090	ELECTROLYTIC CHIP	25V33μF-M
C 963	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 964	181P503090	ELECTROLYTIC CHIP	25V33μF-M
C 966	181P500080	ELECTROLYTIC CHIP	04W10V 33μF-M
C 967	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
C 980	181P502040	ELECTROLYTIC CHIP	04W16V 22μF-M
C 981	181P500040	ELECTROLYTIC CHIP	6.3V100μF-M
VC0SA	202P220020	TRIMMER CHIP-C	5P-20P 4KA
VC4001	202P221010	TRIMMER CHIP	4P-25P
VC601	202P220060	TRIMMER CHIP	15P-60
VC8000	202P220030	TRIMMER CHIP	7P-30P

SWITCHES

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	215C374010	FPC SWITCH	
S 3300	431C075030	SLIDE SWITCH	WIND NOISE FILTER
S 8A1	432D100010	KEY BOARD SWITCH	FADE
S 8A2	432D100010	KEY BOARD SWITCH	DATE / TIME
S 8A3	432D100010	KEY BOARD SWITCH	COUNTER RESET
S 8A4	432D100010	KEY BOARD SWITCH	COUNTER MEMORY
S 8A5	432D100010	KEY BOARD SWITCH	WHITE BALANCE
S 8A6	432D100010	KEY BOARD SWITCH	SHUTTER SPEED
S 8A7	432D100010	KEY BOARD SWITCH	FOCUS
S 8A8	431C074010	SLIDE SWITCH	FULL AUTO
SW501	431C086010	SLIDE SWITCH	STAND BY
SW503	432P090010	KEY BOARD SWITCH	START / STOP
SW571	439P015010	LEAF SWITCH	
SW572	439P015010	LEAF SWITCH	
SW573	439P013020	LIMIT SWITCH	
SW574	439P014020	MODE SWITCH	

MISCELLANEOUS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
F 900	283D047060	FUSE	3.15A-T
J 2F0	451C112020	JACK	8P SW-TSUKI
J 3301	451C113010	MICROPHONE JACK	
J 900	451C099020	POWER JACK	
T 480	409P527010	FE-OSC-COIL-CHIP	6304-087
X 0SA	285P106010	CRYSTAL RESONATOR	
X 5A0	285P102010	CRYSTAL RESONATOR	
X 601	285P116010	CRYSTAL RESONATOR	
X 7AA	299P126020	CERAMIC OSC CHIP	CSAC4.00
Z 8A1	289P021020	LCD	
X 8000	285P084010	CRYSTAL RESONATOR	
Z 900	266P928040	PROTECTOR IC	1CP-F25
Z 901	266P928020	PROTECTOR IC	ICP-F15

PRINTED CIRCUIT BOARDS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	928B756020	CM PCB ASSY	
	928C549010	EC PCB ASSY	
	928C535020	HA PCB ASSY	
	928C538030	LCD PCB ASSY	
	928B796010	MAIN PCB ASSY	
	928B759020	MDA PCB ASSY	
	928C537020	MIC-AMP PCB ASSY	
	928C536030	SUB OPE PCB ASSY	
	928B795010	PC PCB ASSY	
	928C532020	SD PCB ASSY	
	928C527010	SENS PCB ASSY	
	928B797010	SIGNAL PCB ASSY	
	928C546010	TRIGGER PCB ASSY	
	928C584002	S-SUB PCB ASSY	
	928C602001	PC-SUB PCB ASSY	

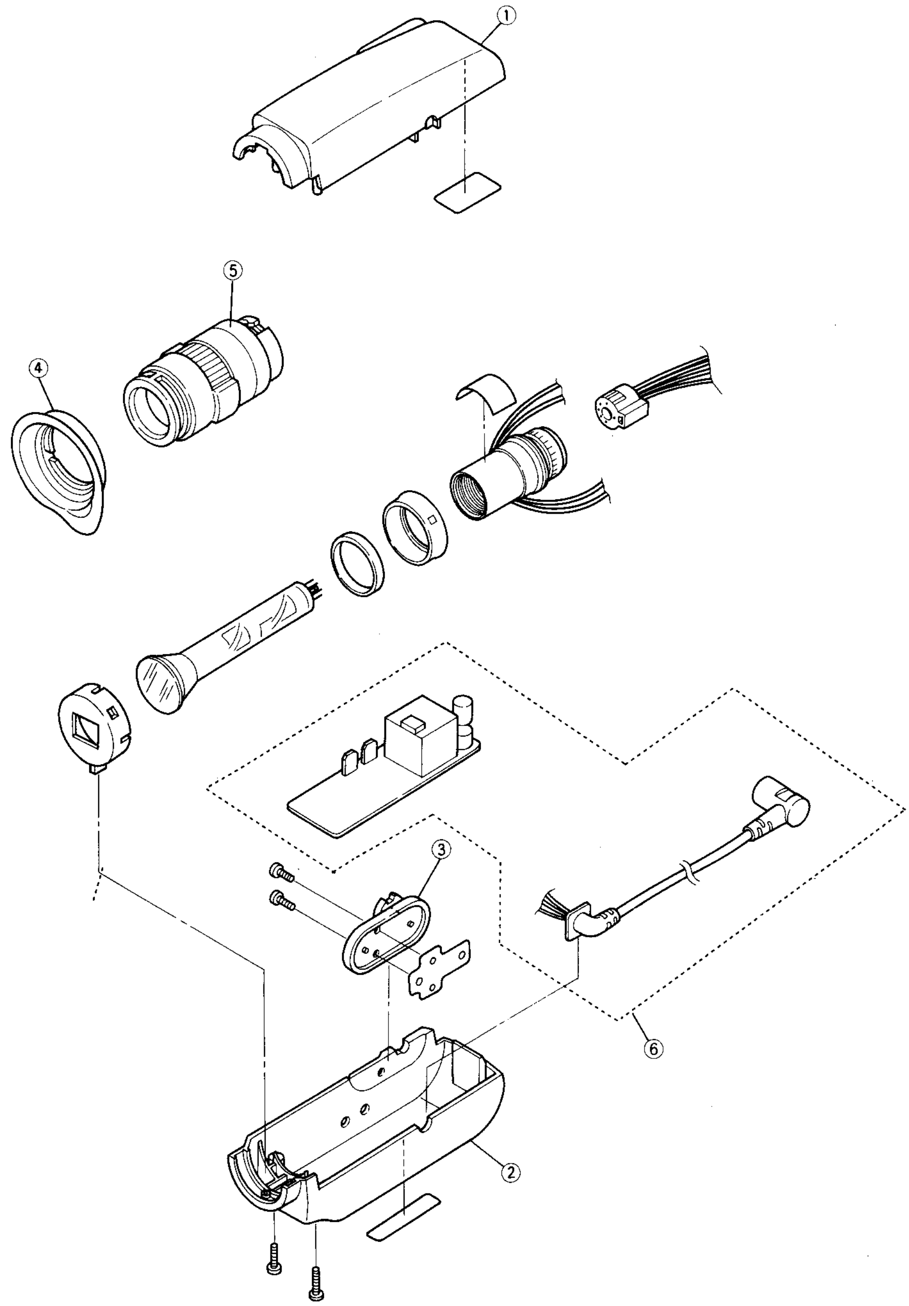
WARNING
"Lithium battery. Replace battery only with the same type ordered from Mitsubishi, Parts number : 283P035020 (CR2025) Use of another battery may present a risk of fire or explosion. Do not recharge, disassemble or dispose battery to fire."

AC POWER ADAPTER PARTS

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
	242D368010	AC CORD	
	700D026030	TOP COVER	
	700D026040	BOTTOM COVER	
	703D092010	LED LENS COVER	
S1	439D037010	SWICH	
T0	451D057010	DC OUT JACK	
	458D022010	TERMINAL	
	242C977010	DC OUT CABLE	
IC21	266D100030	IC	AN78L05
IC22	266D100040	IC	AN6562
IC51	266D100010	IC	M51977FP
IC71	266D100060	IC	HA0125300
IC72	266D100070	IC	μPC393G
Q1	260D212010	TRANSISTOR	2SK903
Q21	260D212080	TRANSISTOR	2SB952
Q22	260D212090	TRANSISTOR	2SD639
Q71	260D213010	TRANSISTOR	UN2113
Q72	260D213010	TRANSISTOR	UN2113
Q73	260D213020	TRANSISTOR	UN2114
Q74	260D213030	TRANSISTOR	UN2219
D1	264D121020	DIODE	S1WBA60
D2	264D121030	DIODE	ERA22-08
D3	264D121050	DIODE	ERA22-02
D4	264D121040	DIODE	ERA15-01
D5	264D122070	DIODE	MA165
D21	264D122050	DIODE	MA649
D22	264D122060	DIODE	ERBB1-004
D23	264D122070	DIODE	MA165
D24	264D122080	DIODE	MA175WK
D71	264D122090	DIODE	MA-151WA
LED1	264D124010	LIGHT EMITTING DIODE	LN21RPHL
LED2	264D124010	LIGHT EMITTING DIODE	LN21RPHL
ZD1	264D122010	ZENERDIODE	MA4200
ZD21	264D122010	ZENER DIODE	MA4200
ZD22	264D124020	ZENERDIODE	MA4039
ZD23	264D124030	ZENERDIODE	MA4051
ZD24	264D124030	ZENERDIODE	MA4051
ZD51	264D122020	ZENERDIODE	MA3300
ZD52	264D122030	ZENERDIODE	MA3047

SYMBOL NO.	PARTS NO.	PARTS NAME	DESCRIPTION
PHC1	268D012030	PHOTO CUPLER	PC111
F1	283D079070	FUSE	
HF1	283D079060	THERMAL FUSE	
T1	350D041030	TRANSFORMER	ETS22K858A
X21	299D178010	OSCILLATOR	KBR-4.0MES
VR21	129D164070	VR-SEMIFIXED	0.1W 1KΩ
VR22	129D164080	VR-SEMIFIXED	0.1W 50KΩ

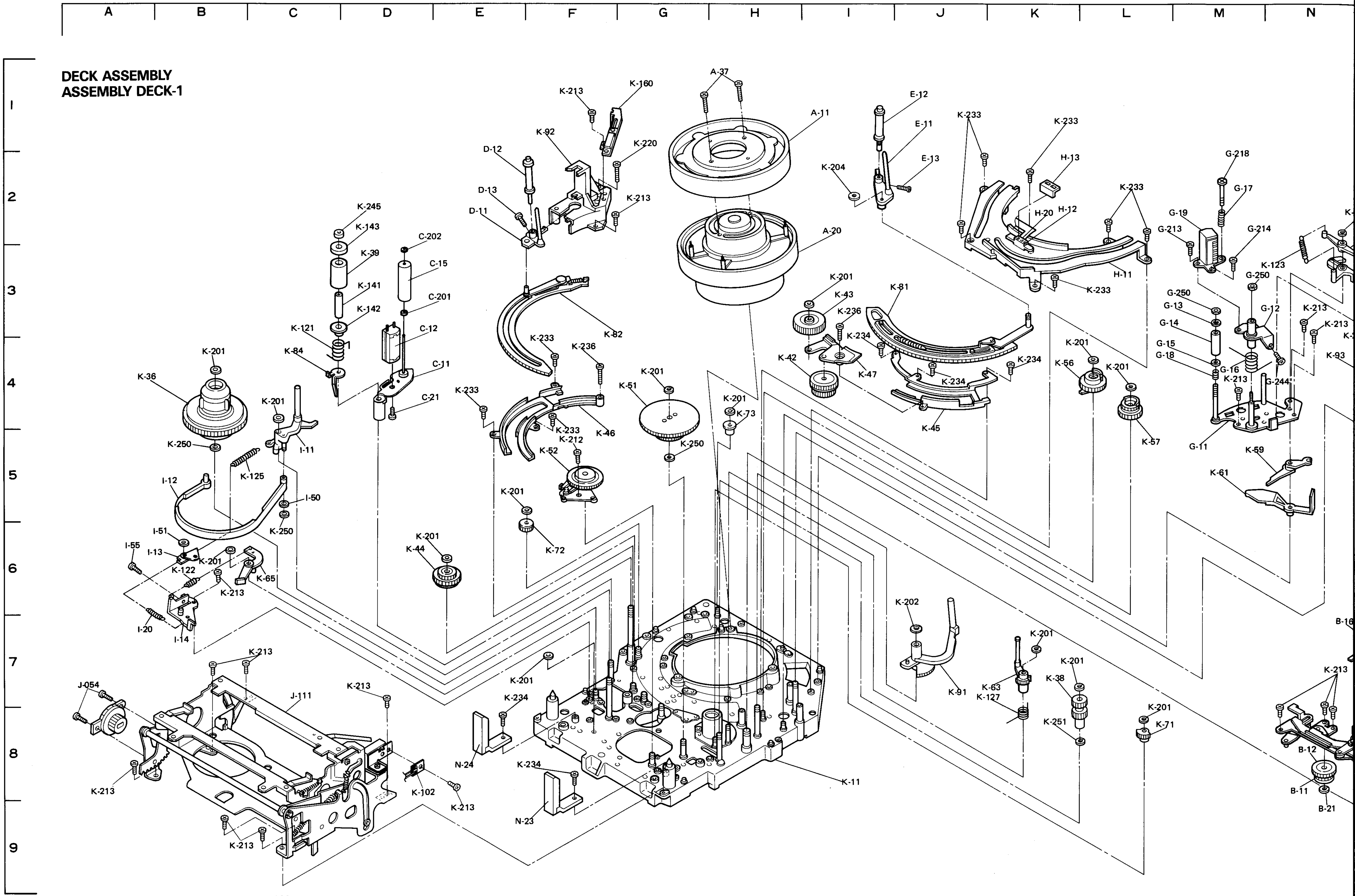
4. EVF Unit Parts



○ : NEW PARTS

	ITEM NO.	PARTS NO.	PARTS NAME	DESCRIPTION
○	1	701D071040	TOP COVER	
○	2	701D071060	BOTTOM COVER	
○	3	621D683010	SHUE	
○	4	765D039020	EYE CAP	
○	5	409D009030	LENS ASSY	
○	6	242D368030	PCB UNIT	

DECK ASSEMBLY
ASSEMBLY DECK-1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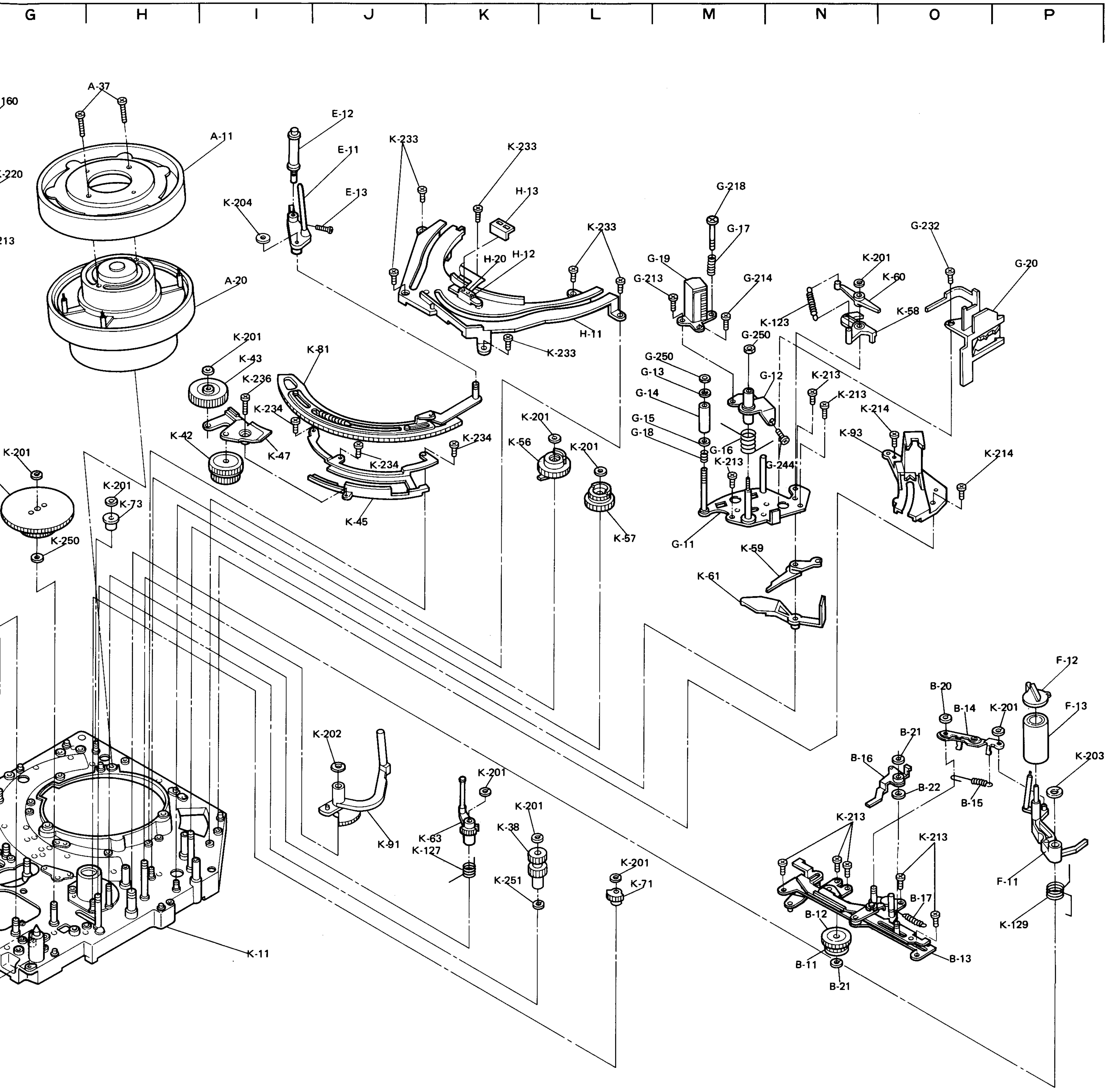
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* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948B221010	○			ASSY-DRUM	INCLUDE A-11～A-38	01
A-11	928B739090	○	I-1		ASSY-UPPER-DRUM		01
A-20	288P092010	○	I-2		MOTOR-DRUM	M 571	01
A-37	669D340020		G-1	H-1	SCREW-SEMS	M2×0. 4	02
	948C231010				ASSY-CAM-PLATE	INCLUDE B-11～B-22	01
B-11	621D565010		N-8		CAM-LOAD-A		01
B-12	621D561010		N-8		GEAR-LA4		01
B-13	592C805010		0-8		HOLDER-C-SLIDE		01
B-14	592C897010		0-6		ROD-PINCH		01
B-15	572D336010		0-7		SPRING-P		01
B-16	592C833010		0-7		LEVER-GEAR-LOCK		01
B-17	572D350010		0-8		SPRING-RS		01
B-20	552C009030	○	0-6		CUT-WASHER		01
B-21	552C007010	○	0-7	N-8	CUT-WASHER		02
B-22	552C001020		0-7		WASHER-THRUST		01
	928D034010	○			ASSY-ARM-FE	INCLUDE C-11～C-202	01
C-11	641C973010		D-4		ARM-FE-A		01
C-15	631D231010		D-3		ROLLER-IMP-A		01
C-12	460P074020	○	D-4		HEAD-FE	T 571	01
C-21	669D207010		D-4		SCREW-S-S	M2×0. 4-2. 2	01
C-201	552C001010		D-3		WASHER-THRUST		01
C-202	552C009030		D-3		CUT-WASHER		01
	948D021010	○			ASSY-TAPE-GUIDE-SP	INCLUDE D-11～D-13	01
D-11	635B064010	○	F-2		TAPE-GUIDE-SP		01
D-12	522B036010	○	F-2		GUIDE-ROLLER		01
D-13	669D334010		E-2		SCREW	M1. 5×0. 25	01
	948D022010	○			ASSY-TAPE-GUIDE-TU	INCLUDE E-11～E-13	01
E-11	635B065010	○	I-2		TAPE-GUIDE-TU		01
E-12	522B029010	○	I-1		GUIDE-ROLLER		01
E-13	669D334010		J-2		SCREW	M1. 2×0. 25	01
	948C232010	○			ASSY-ARM-PINCH	INCLUDE F-11～F-13	01
F-11	635B066010	○	P-7		ARM-PINCH		01
F-12	621D643010		P-6		CAP-PINCH		01
F-13	522C080010	○	P-6		PINCH-ROLLER		01
	928B747010	○			ASSY-PLATE-AC	INCLUDE G-11～G-250	01
G-11	591B589010		M-4		BASE-AC-MAIN-A		01
G-12	592C797010		M-3		ARM-AC		01
G-13	631D177010		M-3		FLANGE-GP-U		01
G-14	631D111010		M-4		GUIDE-POLE		01
G-15	631D176010		M-4		FLANGE-GP-L		01
G-16	572D347010		M-4		SPRING-ARM-AC		01
G-17	572D382010		M-2		SPRING-AC		01
G-18	572D207010		M-4		SPRING-G-P		01
G-19	460P073020	○	M-2		HEAD-AC	T 572	01
G-20	641C887010		0-3		HOLDER-LEAD-AC		01
G-213	669D277030		M-3		SCREW	M1. 7×0. 35×3	01
G-214	669D335010		M-3		SCREW	M1. 7×0. 35-4	01
G-218	669D344010		M-2		SCREW-FLANGE	M1. 7×0. 35-7. 2	01
G-232	669D315020		0-2		SCREW	M1. 7×0. 35-2	01
G-244	669D277050		N-3		SCREW	M1. 7×0. 35×4	01
G-250	674D093010		M-3	M-3	NUT-S		02
	928C525010	○			ASSY-GUIDE-SLIDER	INCLUDE H-11～H-20	01
H-11	641B337010		L-3		GUIDE-SLIDER-A		01
H-12	641C834010		K-2		HOLDER-LED		01
H-13	641C834020		K-2		HOLDER-LED		01
H-20	264P526010		K-2		DIODE-LE	D571 (LN-57)	01

* Settelled Service

ITEM	PARTS No.
	948C233010
I-11	641B340010
I-12	641B352010
I-13	621D570010
I-14	592C801010
I-20	572D383010
I-50	552C009010
I-51	552C007010
I-55	669D381010
J-111	591B595010
J-032	641C721010
J-054	(054)
K-11	948B219010
K-36	522B027020
K-38	641C868010
K-39	621D393010
K-42	621D562010
K-43	621D563010
K-44	621D564010
K-45	641C855010
K-46	641C856010
K-47	621D584010
K-51	522B032010
K-52	522B035010
K-56	641C836010
K-57	641C837010
K-58	641C838010
K-59	641C839010
K-60	641C840010
K-61	641C841010
K-63	635C088010
K-65	641C845010
K-71	641C846010
K-72	621D566010
K-73	621D580010
K-81	591B578010
K-82	591B579010
K-84	596D118010
K-91	635B067010
K-92	635B062010
K-93	635B063010
K-102	299P115020
K-121	572D438010
K-122	572D335010
K-123	572D346010
K-125	572D349010
K-127	572D351010
K-129	570C054010
K-141	631D108010
K-142	631D178010
K-143	631D179010
K-160	299C023010
K-201	552C007010
K-202	552C007020
K-203	552C007050

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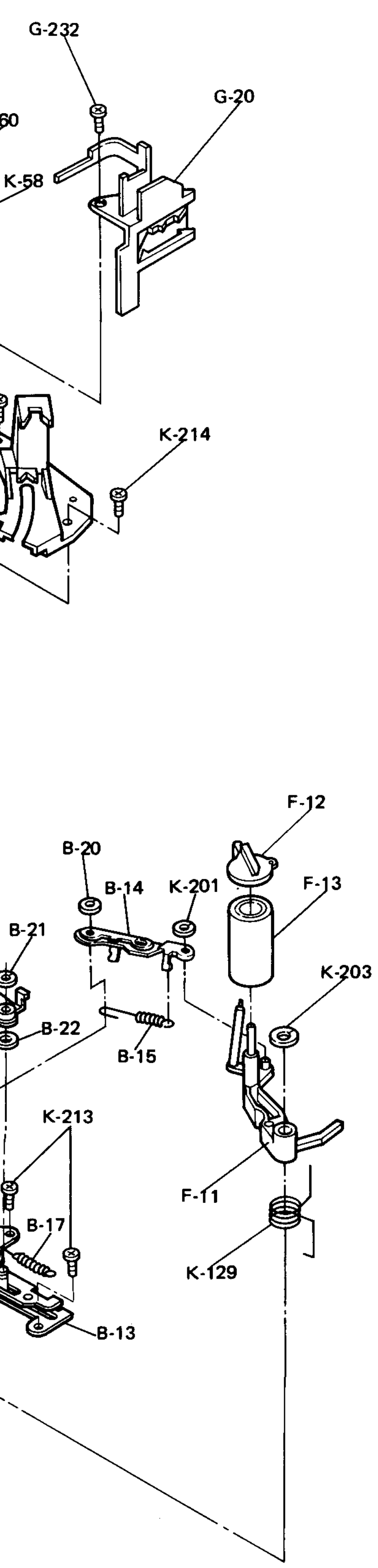


＊Settelled Service Parts

ITEM	PARTS No.	＊	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948B221010	○			ASSY-DRUM	INCLUDE A-11～A-38	01
A-11	928B739090	○	I-1		ASSY-UPPER-DRUM		01
A-20	288P092010	○	I-2		MOTOR-DRUM	M 571	01
A-37	669D340020		G-1	H-1	SCREW-SEMS	M2×0.4	02
	948C231010				ASSY-CAM-PLATE	INCLUDE B-11～B-22	01
B-11	621D565010		N-8		CAM-LOAD-A		01
B-12	621D561010		N-8		GEAR-LA4		01
B-13	592C805010		O-8		HOLDER-C-SLIDE		01
B-14	592C897010		O-6		ROD-PINCH		01
B-15	572D336010		O-7		SPRING-P		01
B-16	592C833010		O-7		LEVER-GEAR-LOCK		01
B-17	572D350010		O-8		SPRING-RS		01
B-20	552C009030	○	O-6		CUT-WASHER		01
B-21	552C007010	○	O-7	N-8	CUT-WASHER		02
B-22	552C001020		O-7		WASHER-THRUST		01
	928D034010	○			ASSY-ARM-FE	INCLUDE C-11～C-202	01
C-11	641C973010		D-4		ARM-FE-A		01
C-15	631D231010		D-3		ROLLER-IMP-A		01
C-12	460P074020	○	D-4		HEAD-FE	T 571	01
C-21	669D207010		D-4		SCREW-S-S	M2×0.4-2.2	01
C-201	552C001010		D-3		WASHER-THRUST		01
C-202	552C009030		D-3		CUT-WASHER		01
	948D021010	○			ASSY-TAPE-GUIDE-SP	INCLUDE D-11～D-13	01
D-11	635B064010	○	F-2		TAPE-GUIDE-SP		01
D-12	522B036010	○	F-2		GUIDE-ROLLER		01
D-13	669D334010		E-2		SCREW	M1.5×0.25	01
	948D022010	○			ASSY-TAPE-GUIDE-TU	INCLUDE E-11～E-13	01
E-11	635B065010	○	I-2		TAPE-GUIDE-TU		01
E-12	522B029010	○	I-1		GUIDE-ROLLER		01
E-13	669D334010		J-2		SCREW	M1.2×0.25	01
	948C232010	○			ASSY-ARM-PINCH	INCLUDE F-11～F-13	01
F-11	635B066010	○	P-7		ARM-PINCH		01
F-12	621D643010		P-6		CAP-PINCH		01
F-13	522C080010	○	P-6		PINCH-ROLLER		01
	928B747010	○			ASSY-PLATE-AC	INCLUDE G-11～G-250	01
G-11	591B589010		M-4		BASE-AC-MAIN-A		01
G-12	592C797010		M-3		ARM-AC		01
G-13	631D177010		M-3		FLANGE-GP-U		01
G-14	631D111010		M-4		GUIDE-POLE		01
G-15	631D176010		M-4		FLANGE-GP-L		01
G-16	572D347010		M-4		SPRING-ARM-AC		01
G-17	572D382010		M-2		SPRING-AC		01
G-18	572D207010		M-4		SPRING-G-P		01
G-19	460P073020	○	M-2		HEAD-AC	T 572	01
G-20	641C887010		O-3		HOLDER-LEAD-AC		01
G-213	669D277030		M-3		SCREW	M1.7×0.35×3	01
G-214	669D335010		M-3		SCREW	M1.7×0.35-4	01
G-218	669D344010		M-2		SCREW-FLANGE	M1.7×0.35-7.2	01
G-232	669D315020		O-2		SCREW	M1.7×0.35-2	01
G-244	669D277050		N-3		SCREW	M1.7×0.35×4	01
G-250	674D093010		M-3	M-3	NUT-S		02
	928C525010	○			ASSY-GUIDE-SLIDER	INCLUDE H-11～H-20	01
H-11	641B337010		L-3		GUIDE-SLIDER-A		01
H-12	641C834010		K-2		HOLDER-LED		01
H-13	641C834020		K-2		HOLDER-LED		01
H-20	264P526010		K-2		DIODE-LE	D571(LN-57)	01

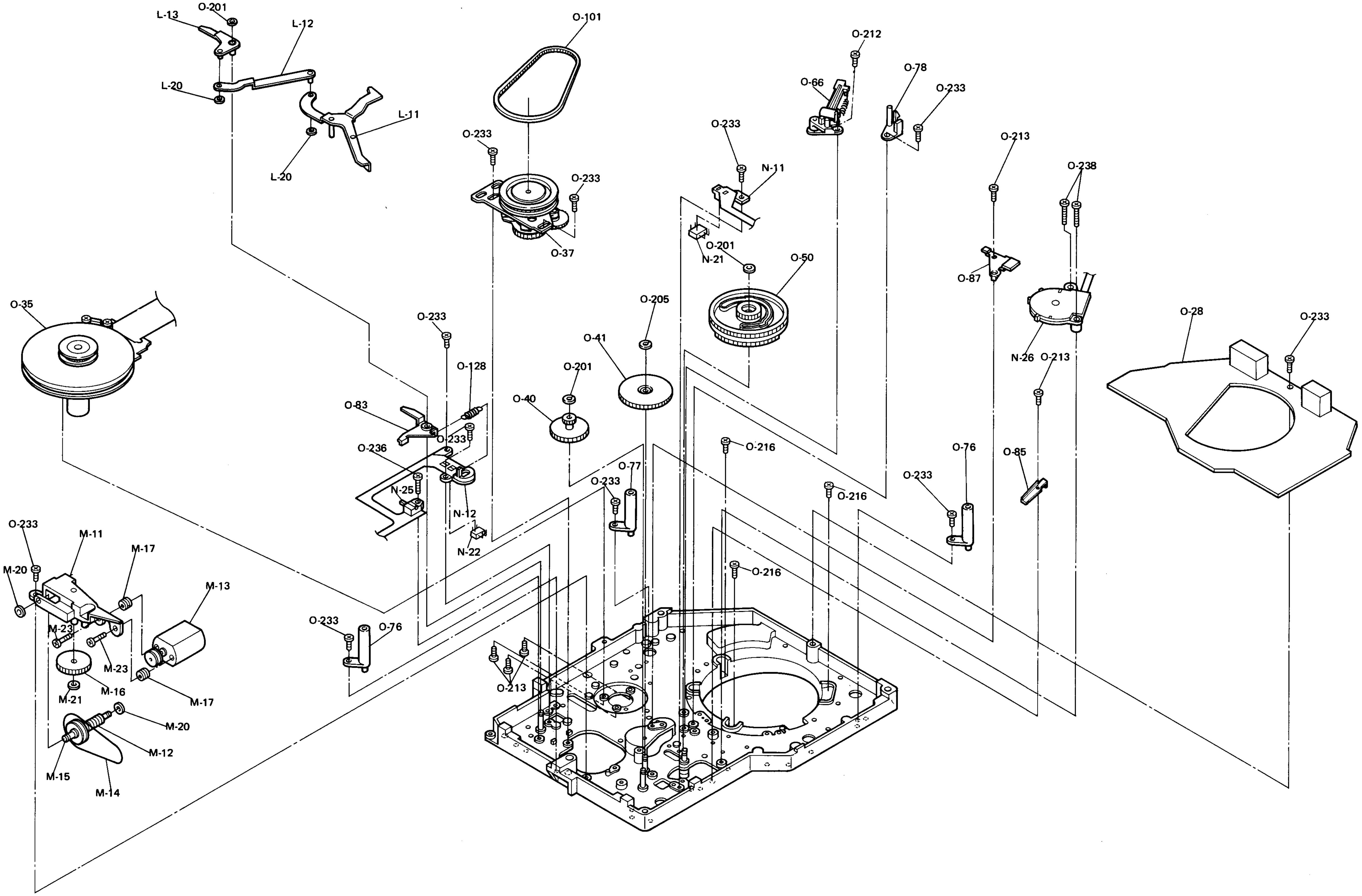
＊Settelled Service Parts

ITEM	PARTS No.	＊	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948C233010	○			ASSY-ARM-TENS	INCLUDE I-11～I-55	01
I-11	641B340010		C-5		ARM-TENSION		01
I-12	641B352010		B-5		BELT-TENS-A		01
I-13	621D570010		B-6		HOLDER-TENS-2A		01
I-14	592C801010		B-7		HOLDER-TENS-A		01
I-20	572D383010		A-7		SPRING-H-TENS		01
I-50	552C009010	○	C-5		CUT-WASHER		01
I-51	552C007010	○	B-6		CUT-WASHER		01
I-55	669D381010		A-6		SCREW	M1.7×0.35×6	01
J-111	591B595010	○	C-7		UNIT-C-HOU-A	INCLUDE J-032～J-054	01
J-032	641C721010	○	A-7		DAMPER-HOU		01
J-054	(054)		A-7	A-8	SCREW	M1.7-2	02
K-11	948B219010		I-8		ASSY-PLATE-MAIN		01
K-36	522B027020	○	B-4		REEL-DISK		01
K-38	641C868010		K-7		GEAR-TU1-A		01
K-39	621D393010	○	D-3		ROLLER-IMP		01
K-42	621D562010		I-4		GEAR-LA5		01
K-43	621D563010		I-3		GEAR-LA6		01
K-44	621D564010		E-6		GEAR-LA7		01
K-45	641C855010		J-4		HOLDER-RA		01
K-46	641C856010		F-4		HOLDER-RB		01
K-47	621D584010		I-4		HOLDER-RC		01
K-51	522B032010	○	G-4		GEAR-REEL-A		01
K-52	522B035010	○	F-5		UNIT-GEAR-REEL-LOCK		01
K-56	641C836010		L-4		CAM-GEAR-SL		01
K-57	641C837010		L-4		CAM-GEAR-SS		01
K-58	641C838010		N-3		ARM-SET-SU		01
K-59	641C839010		N-5		ARM-SET-SL		01
K-60	641C840010		N-3		ARM-SET-LU		01
K-61	641C841010		N-5		ARM-SET-LL		01
K-63	635C088010		K-7		ARM-TU-G		01
K-65	641C845010		C-6		BRAKE-S		01
K-71	641C846010		L-8		GEAR-TU-G		01
K-72	621D566010		F-6		GEAR-RING		01
K-73	621D580010		H-4		ROLLER-RING		01
K-81	591B578010		J-4		UNIT-RING-SA		01
K-82	591B579010		F-3		UNIT-RING-TA		01
K-84	596D118010		C-4		WASHER-IMP		01
K-91	635B067010	○	J-7		ARM-SLANT		01
K-92	635B062010	○	F-2		STOPPER-TG-SP		01
K-93	635B063010	○	O-4		STOPPER-TG-TU		01
K-102	299P115020	○	D-8		SENSOR-H	Z 571	01
K-121	572D438010		C-4		SPRING-IMP		01
K-122	572D335010		B-6		SPRING-TENS		01
K-123	572D346010		N-3		SPRING-AS		01
K-125	572D349010		C-5		SPRING-S		01
K-127	572D351010		K-8		SPRING-RP		01
K-129	570C054010		P-8		SPRING-PINCH		01
K-141	631D108010		D-3		SLEEVE-IMP		01
K-142	631D178010		D-3		FLANGE-IMP-LA		01
K-143	631D179010		D-3		FLANGE-IMP-U		01
K-160	299C023010	○	G-1		BRUSH		01
K-201	552C007010	○	B-4	C-4	CUT-WASHER		16
			E-6	F-5			
			G-4	I-3			
			L-4	L-4			
			N-2	P-6			
			L-8	K-7			
			K-7	F-7			
			H-4	B-4			
K-202	552C007020	○	J-7		CUT-WASHER		01
K-203	552C007050	○	P-7		CUT-WASHER		01

＊Settelled Service Parts

ITEM	PARTS No.	＊	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
K-204	552C009040	○	I-2		CUT-WASHER		01
K-212	669D227020		F-5		SCREW	M1.7×0.35×2	01
K-213	669D277030		A-8	B-7	SCREW	M1.7×0.35×3	18
			B-7	B-9			
			C-9	D-7			
			N-8	N-8			
			N-8	O-8			
			M-4	N-4			
			N-3	G-2			
			F-1	B-6			
			O-8	E-8			
K-214	669D277050		O-4	O-4	SCREW	M1.7×0.35×4	02
K-220	669D227010		G-2		SCREW	M1.7×0.35×10	01
K-233	669D315030		E-4	F-4	SCREW	M1.7×0.35-3	09
			F-4	J-2			
			J-2	K-2			
			L-2	L-2			
			K-3				
K-234	669D315050		I-4	J-4	SCREW	M1.7×0.35-4	05
			K-4	E-8			
			F-8				
K-236	669D315070		I-3	F-4	SCREW	M1.7×0.35-6	02
K-245	674D081050	○	D-2		NUT-NYLON		01
K-250	552C001020		B-5	C-5	WASHER-THRUST		03
			G-5				
K-251	552C003020	○	K-8		WASHER-THRUST		01
N-23	439P015010	○	F-9		SW-LEAF	SW571	01
N-24	439P015010	○	E-8		SW-LEAF	SW572	01

ASSEMBLY DECK-2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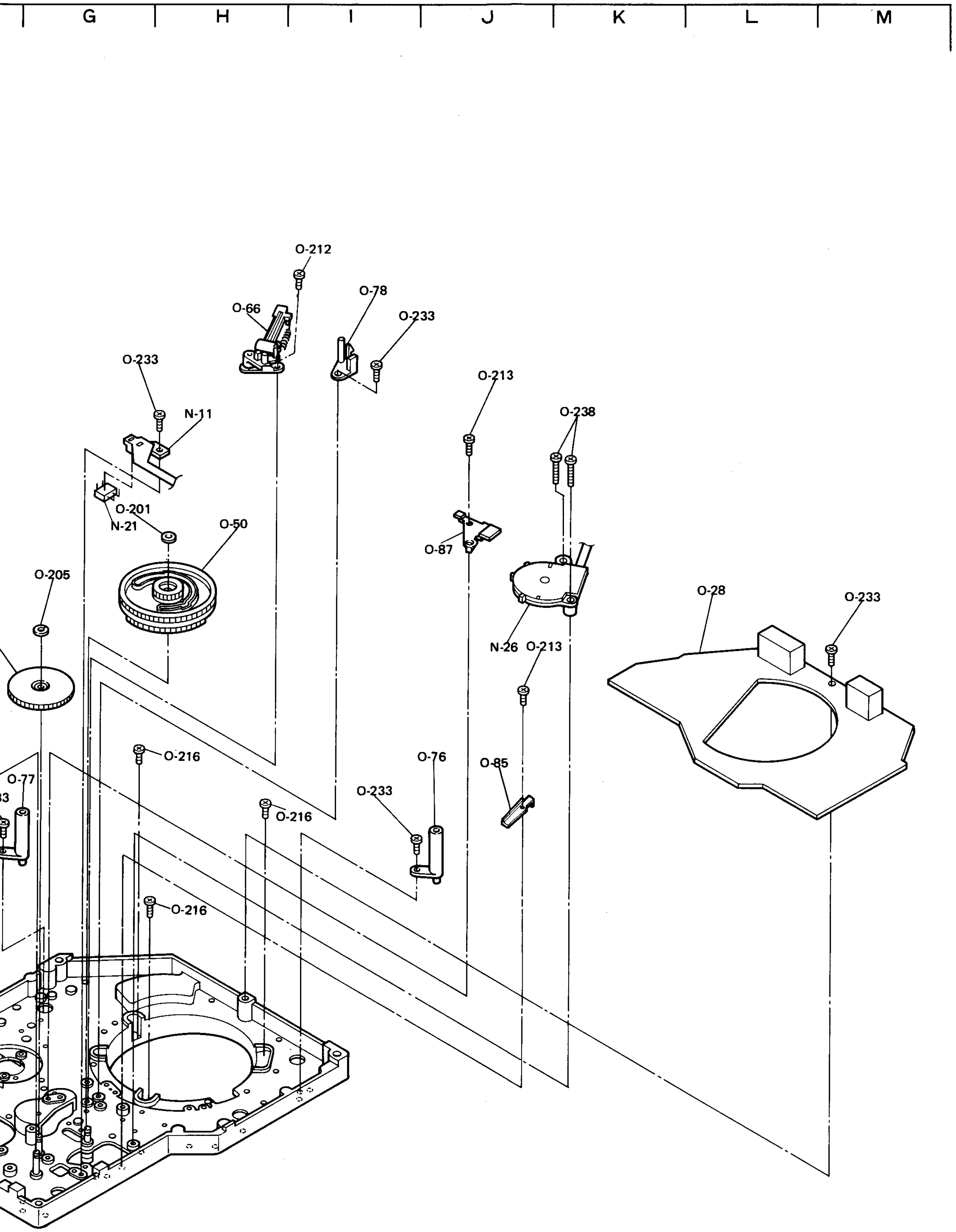


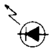
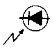
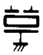
* Settelled Service Parts

ITEM	PARTS No.	*	ADDRESS		PARTS NAME	DESCRIPTION	Qt.
	948D023010	○			ASSY-LEVER-EJECT	INCLUDE L-11～L-13	01
L-11	592C806010		D-2		LEVER-EJ		01
L-12	596D122010		C-2		ROD-EJECT		01
L-13	596D119010		C-1		ARM-LOCK-EJECT		01
L-20	552C007010	○	D-2	C-2	CUT-WASHER		02
	928C526010	○			ASSY-L-MOTOR	INCLUDE M-11～M-23	01
M-11	641C832010		A-7		HOLDER-MOTOR		01
M-12	621D571010		B-8		WORM-LA		01
M-13	288P084030	○	B-7		MOTOR-LOADING	M 573	01
M-14	521D064010	○	B-8		BELT-L		01
M-15	631D173010		A-8		SHAFT-WORM		01
M-16	621D558010		A-7		GEAR-LA1		01
M-17	550D108010		B-7	B-7	RUBBER-M		02
M-20	552C009030	○	A-7	B-8	CUT-WASHER		02
M-21	552C007010	○	A-8		CUT-WASHER		01
M-23	669D344030		A-7	B-7	SCREW-FLANGE	M1. 7×0. 35-2. 2	02
	928C527010	○			ASSY-PWB-SENS	INCLUDE N-11～N-26	01
N-11	641C824010		H-3		HOLDER-SENSE-SA		01
N-12	641C847010		E-6		HOLDER-SENS-TA		01
N-21	268P026010	○	G-3		PHOTO-INTERRUPTER	Q571(GP2L04-B)	01
N-22	268P026010	○	E-6		PHOTO-INTERRUPTER	Q572(GP2L04-B)	01
N-25	439P013020	○	D-6		SW-LIMIT	SW 573	01
N-26	439P014020	○	J-4		SW-MODE	SW 574	01
0-28	928B759020	○	L-5		ASSY-PWB-MDA		01
0-35	288P087010	○	A-4		MOTOR-CP	M 572	01
0-37	522C067020	○	F-3		REEL-IDLER		01
0-40	621D559010		F-5		GEAR-LA2		01
0-41	621D560010		G-5		GEAR-LA3		01
0-50	641B342010		H-4		CAM-GEAR-MA		01
0-66	641C863010		H-2		BRAKE-CP		01
0-76	621D589010		D-7	J-6	HOLDER-PWB-1		02
0-77	621D590010		F-6		HOLDER-PWB-2		01
0-78	621D594010		I-2		HOLDER-PWB-3		01
0-83	596D154010		D-5		LEVER-SW-A		01
0-85	596D219010		J-6		PLATE-EJ-H		01
0-87	596D155010		J-4		PLATE-CAM-H		01
0-101	521D061010	○	F-2		BELT-SYNC		01
0-128	572D360010		E-5		SPRING-SW-A		01
0-201	552C007010	○	C-1 H-4	F-5	CUT-WASHER		03
0-205	552C009070	○	G-4		CUT-WASHER		01
0-212	669D227020		I-2		SCREW	M1. 7×0. 35×2	01
0-213	669D277030		J-3 E-7 F-7	J-5 E-7	SCREW	M1. 7×0. 35×3	05
0-216	669D277070		H-6 G-5	H-6	SCREW	M1. 7×0. 35×6	03
0-233	669D315030		E-5 E-3 E-5 F-6 I-2 H-3	A-6 F-3 D-7 I-6 M-5	SCREW	M1. 7×0. 35-3	11
0-236	669D315070		E-6		SCREW	M1. 7×0. 35-6	01
0-238	669D315090		K-3	K-3	SCREW	M1. 7×0. 35-8	02

SCHEMATIC DIAGRAM

NOTE 1:

- DC voltages were measured from points indicated to the circuit ground with a Digital voltmeter.
- The voltages of camera section were measured with the Y/C MIX adapter.
- Waveforms of camera section were taken with the four color chart.
- Waveforms of VTR section were taken with standard color bar signal.
- The unit of resistance "ohm" entirely omitted.
  Accordingly, K=1000 ohms.
  M=1000K ohms.
- Resistors, not specifically designated, are R-M-chip resistors.
- The tolerance of resistor value, not specifically designated, is: ±5%.
- The unit of capacitance, not specifically designated, is:
  a) μF, for numbers less than 1
  b) PF, for numbers more than 1
- Capacitors, not specifically designated are Ceramic chip capacitors except electrolytic capacitors.
- The marks of capacitors are as follows:
  (TAN) : Tantalum capacitor
  ‡ : Electrolytic capacitor
- The tolerance of capacitor value, not specifically designated is: ±10%
  and J = ±5% K = ±10% M = ±20% P = $^{+100\%}_{-\ \ 0\%}$
  C = ±0.25PF D = ±0.5PF F = ± 1PF Z = $^{+80\%}_{-20\%}$ N =±30%
- Ceramic capacitors with the marks RH, UJ, SL, etc. are temperature compensating types.

SPECIFIC SYMBOL	
Zener Diode	Crystal unit
 LE Diode	
 Photo Diode	 Ceramic filter

This is a basic schematic diagram. Some sets may be subject to modification according to engineering improvement.

※L : FOR LEFT SIDE TRANSISTOR IN SCHEMATIC DIAGRAM
R : FOR RIGHT SIDE TRANSISTOR IN SCHEMATIC DIAGRAM

DC VOLTAGE TABLES CAMERA(2-1)

PCB-SD

(LENS CAP ON) SHUTTER 1/50

TRANSISTOR

SYMBOL	E	C	B
Q0SA	7.9V	8.8V	8.6V
Q0SB	8.7V	15.0V	9.4V
Q0SC	4.7V	15.0V	5.2V
Q0SD	−7.0V	−8.2V	−7.6V
Q0SE	1.0V	4.9V	1.8V
Q0SF	12.8V	15.0V	13.4V
Q0SL	4.7V	8.9V	5.3V
Q0SM	4.7V	5.3V	5.3V

PCB-CM

WITH A SOURCE OF LIGHT 3200°K

IC7AA

PIN No.		PIN No.	
1	—	41	—
2	—	42	—
3	2.4V	43	—
4	2.5V	44	—
5	4.9V	45	—
6	—	46	0.8V
7	—	47	0V
8	—	48	0V
9	—	49	0.45V
10	0V	50	—
11	0V	51	—
12	—	52	—
13	—	53	—
14	—	54	1.6V
15	—	55	1.6V
16	—	56	2.0V
17	—	57	0.1V
18	—	58	GND
19	2.0V	59	GND
20	—	60	GND
21	—	61	GND
22	—	62	GND
23	—	63	2.4V
24	—	64	2.4V
25	0V	65	2.4V
26	4.9V	66	2.4V
27	—	67	1.8V
28	2.2V	68	4.9V
29	1.5V	69	4.9V
30	—	70	GND
31	—	71	4.9V
32	1.5V	72	4.9V
33	—	73	1.1V
34	—	74	—
35	—	75	~
36	—	76	—
37	4.9V	77	2.5V
38	4.6V	78	1.1V
39	0V	79	—
40	0V	80	—

IC7AB

PIN No.	
1	2.7V
2	2.7V
3	2.7V
4	4.9V
5	1.6V
6	1.6V
7	1.6V
8	0.5V
9	0.5V
10	0V
11	GND
12	1.0V
13	1.0V
14	1.0V

IC7AC

PIN No.	
1	2.7V
2	2.7V
3	2.7V
4	4.9V
5	0.8V
6	0.8V
7	0.8V
8	1.8V
9	1.8V
10	1.8V
11	GND
12	2.2V
13	2.2V
14	2.2V

IC7BA

PIN No.	
1	2.2V
2	—
3	1.6V
4	—
5	1.8V
6	0.1V
7	5.5V
8	GND
9	1.6V
10	1.6V
11	2.0V
12	0.8V
13	1.0V
14	1.4V
15	2.7V
16	4.9V

IC7WB

PIN No.	
1	GND
7	4.9V
8	2.3V
9	2.3V
10	2.4V

IC7ZC

PIN No.	
1	0V
2	3.4V
3	0V
4	GND
5	0V
6	3.4V
7	0V
8	4.9V

IC7ZM

PIN No.	
1	GND
2	0V
3	0V
4	12.0V
5	0V
6	—
7	0V
8	0V

TRANSISTOR

SYMBOL	E	C	B
Q7CA	L 4.9V R GND	4.9V 0V	0V 4.9V
Q7MA	GND	0V	0V
Q7PA	12.0V	12.0V	11.3V
Q7PB	GND	0V	4.9V

※

CAMERA(2-2)

PCB-PC

(LENS CAP ON)

IC2AB

PIN No.		PIN No.	
1	0.83V	36	1.1V
2	1.8V	37	1.8V
3	1.2V	38	1.8V
4	1.2V	39	1.8V
5	3.2V	40	3.0V
6	1.9V	41	1.8V
7	1.9V	42	GND
8	3.2V		
9	1.9V		
10	1.9V		
11	1.8V		
12	1.8V		
13	1.8V		
14	1.8V		
15	3.0V		
16	1.1V		
17	2.5V		
18	3.2V		
19	3.2V		
20	1.8V		
21	4.9V		
22	1.2V		
23	1.9V		
24	2.5V		
25	1.8V		
26	1.6V		
27	2.8V		
28	1.8V		
29	1.7V		
30	1.7V		
31	1.9V		
32	1.6V		
33	1.8V		
34	1.8V		
35	1.9V		

IC2AJ

PIN No.	
1	1.8V
2	1.8V
3	1.8V
4	4.9V
5	1.8V
6	1.8V
7	GND
8	2.2V
9	GND
10	4.9V
11	2.2V
12	GND
13	2.4V
14	2.4V
15	4.9V
16	1.9V
17	1.9V
18	GND

IC2AB

PIN No.	
1	0.83V
2	1.8V
3	1.2V
4	1.2V
5	3.2V
6	1.9V
7	1.9V
8	3.2V
9	1.9V
10	1.9V
11	1.8V
12	1.8V
13	1.8V
14	1.8V
15	3.0V
16	1.1V
17	2.5V
18	3.2V
19	3.2V
20	1.8V
21	4.9V
22	1.2V
23	1.9V
24	2.5V
25	1.8V
26	1.6V
27	2.8V
28	1.8V
29	1.7V
30	1.7V

IC2AD

PIN No.	
1	1.2V
2	GND
3	GND
4	3.9V
5	4.9V

IC2AA

PIN No.	
1	1.8V
2	1.8V
3	1.8V
4	GND
5	1.9V
6	1.9V
7	0.5V
8	4.9V

IC5FA

PIN No.	
1	4.9V
2	1.8V
3	1.9V
4	—
5	—
6	—
7	1.8V
8	1.8V
9	1.4V
10	—
11	GND
12	—
13	—
14	—
15	—
16	—

IC5FB

PIN No.	
1	3.3V
2	GND
3	GND
4	—
5	4.9V

IC2AG

PIN No.	
1	1.5V
2	1.8V
3	1.8V
4	GND
5	1.8V
6	1.8V
7	1.7V
8	4.9V

IC2AL

PIN No.	
1	2.9V
2	2.5V
3	2.5V
4	GND
5	2.5V
6	2.5V
7	2.8V
8	4.9V

TRANSISTOR

SYMBOL	E	C	B
Q2AA	L 1.9V R 1.3V	GND 4.9V	1.3V 1.8V
Q2AC	L 1.8V R 1.5V	GND 4.9V	1.5V 2.1V
Q2AD	1.6V	4.9V	2.3V
Q2AE	L 1.6V R 1.7V	4.9V 4.9V	2.2V 2.2V
Q2AG	3.1V	4.9V	3.8V
Q2AH	L 1.1V R 1.2V	4.9V 3.8V	1.7V 1.8V
Q2AJ	L 1.7V R 1.5V	4.9V GND	2.3V 1.7V
Q2AK	2.4V	GND	1.8V
Q2AL	2.4V	GND	1.8V
Q2AM	2.4V	GND	1.8V
Q2AN	2.4V	GND	1.8V
Q2AP	2.4V	4.9V	2.4V
Q2AQ	1.9V	4.9V	1.3V
Q2AR	2.8V	4.9V	3.5V
Q2AW	L 1.2V R 2.8V	3.4V 4.9V	1.8V 3.4V
Q2AX	L 1.3V R 1.3V	4.8V 4.9V	1.8V 1.9V
Q2AY	L 1.2V R 1.2V	4.9V 4.8V	1.8V 1.7V
Q2AZ	4.9V	1.7V	4.8V
Q2GA	L 2.2V R 2.2V	4.9V 4.9V	0V 2.7V
Q2GB	2.7V	GND	2.2V
Q2GC	GND	0V	4.9V
Q2GD	1.8V	1.8V	0.2V
Q2GE	4.3V	4.9V	4.9V
Q2GF	L 1.1V R 1.2V	4.9V 3.5V	1.1V 1.7V
Q2GG	4.9V	4.8V	4.9V
Q3AA	1.4V	GND	0V
Q3BA	L 1.2V R 1.2V	4.9V 3.0V	1.8V 1.8V
Q3BB	L 2.5V R 1.8V	4.9V 4.9V	3.0V 2.4V

※

PCB-EC

IC2JD

PIN No.		PIN No.	
1	0V	31	GND
2	GND	32	GND
3	GND	33	GND
4	GND	34	GND
5	GND	35	GND
6	1.0V	36	GND
7	GND	37	GND
8	2.4V	38	3.3V
9	3.3V	39	4.9V
10	GND	40	2.3V
11	2.4V	41	GND
12	—	42	1.2V
13	GND	43	GND
14	4.9V	44	GND
15	2.4V		
16	2.4V		
17	GND		
18	0.8V		
19	GND		
20	—		
21	2.5V		
22	GND		
23	—		
24	—		
25	4.9V		
26	0.2V		
27	~		
28	4.5V		
29	GND		
30	GND		

IC2JM

PIN No.	
1	—
2	2.4V
3	GND
4	2.3V
5	4.9V

IC2JA

PIN No.	
1	—
2	—
3	—
4	—
5	—
6	4.9V
7	2.7V
8	2.6V
9	2.7V
10	2.7V
11	0.2V
12	2.6V
13	4.9V
14	3.5V
15	2.9V
16	GND
17	1.3V
18	1.7V
19	GND
20	2.4V
21	3.3V
22	3.6V
23	3.2V
24	3.2V
25	GND
26	—
27	—
28	—

IC2JB

PIN No.	
1	1.3V
2	GND
3	GND
4	3.6V
5	4.9V

IC2JH

PIN No.	
1	0V
2	GND
3	GND
4	4.8V
5	4.9V

IC2JK

PIN No.	
1	1.3V
2	GND
3	GND
4	3.7V
5	4.9V

IC2JL

PIN No.	
1	GND
2	2.8V
3	4.9V
4	2.4V
5	GND

IC2JC

PIN No.	
1	1.0V
2	GND
3	GND
4	3.8V
5	4.9V

IC2JE

PIN No.	
1	—
2	2.4V
3	GND
4	3.4V
5	4.9V

TRANSISTOR

SYMBOL	E	C	B
Q2JA	L 1.8V R 1.8V	4.9V 4.9V	2.5V 1.8V
Q2JC	L 4.9V R 3.4V	3.4V 4.9V	4.9V 1.3V
Q2JE	L 3.4V R 1.1V	4.9V 3.7V	3.7V 1.7V
Q2JK	1.1V	4.9V	1.7V
Q2JL	L 1.2V R 3.2V	2.5V 4.9V	1.8V 2.5V
Q2JW	2.5V	0V	1.9V
Q2JZ	2.4V	4.9V	2.6V
Q2KA	L 2.6V R 2.6V	2.6V 0V	0.2V 2.0V
Q2KB	L 1.8V R 2.9V	4.9V 4.9V	2.5V 3.5V
Q2KC	L 1.8V R 1.6V	3.5V 4.9V	1.2V 3.5V
Q2KD	L 1.7V R 1.7V	4.9V 4.9V	1.6V 2.3V
Q2KE	L 2.3V R 2.3V	0V 0V	1.7V 2.5V
Q2KF	2.5V	4.9V	3.2V
Q2KG	1.1V	4.9V	1.8V
Q2KJ	2.3V	4.9V	2.4V
Q2KK	1.2V	4.9V	1.8V
Q2KL	2.8V	0V	2.3V
Q2ZA	L 1.0V R 3.0V	3.7V 4.9V	1.6V 3.7V
Q2ZB	2.3V	0V	1.7V
Q2ZC	2.4V	4.9V	1.2V
Q2ZD	UPPER 1.3V LOWER 1.4V	0V 0V	0.9V 0.9V
Q2ZE	L 1.5V R 3.2V	1.1V 4.9V	3.2V 3.8V

※

〔S-VHS LP PLAY(REC) MODE〕

CONTROL (PCB-MAIN)

IC5A0

PIN No.		PIN No.		PIN No.	
1	5.1(0.0)	28	5.1(5.1)	55	5.1(5.1)
2	0.0(0.0)	29	2.2(2.2)	56	0.0(0.0)
3	0.0(0.0)	30	1.0(1.0)	57	~(~)
4	3.9(0.0)	31	0.0(0.0)	58	3.0(3.1)
5	~(~)	32	0.0(0.0)	59	2.6(2.5)
6	~(~)	33	0.1(5.1)	60	2.1(2.2)
7	~(~)	34	5.1(0.1)	61	2.5(2.5)
8	~(~)	35	0.0(5.0)	62	2.6(2.6)
9	~(~)	36	4.7(4.7)	63	5.1(5.1)
10	~(~)	37	0.0(0.0)	64	0.0(0.0)
11	~(~)	38	0.0(0.0)	65	0.0(0.0)
12	5.1(5.1)	39	4.2(4.2)	66	0.0(5.1)
13	5.1(5.0)	40	0.0(0.0)	67	0.0(5.1)
14	~(~)	41	2.3(2.3)	68	5.1(5.0)
15	0.0(0.0)	42	2.3(2.3)	69	0.0(0.0)
16	0.0(0.0)	43	5.0(5.0)	70	0.0(0.0)
17	0.0(0.0)	44	5.1(5.1)	71	~(~)
18	5.0(5.0)	45	2.5(2.4)	72	0.0(0.0)
19	5.1(5.1)	46	2.6(2.6)	73	5.1(5.1)
20	5.0(5.0)	47	0.0(0.0)	74	5.1(5.1)
21	5.0(5.0)	48	0.0(0.0)	75	5.1(5.1)
22	4.7(4.7)	49	0.0(0.0)	76	0.0(0.0)
23	0.0(0.0)	50	0.0(0.0)	77	~(~)
24	4.7(4.7)	51	0.0(0.0)	78	0.0(0.0)
25	5.0(4.9)	52	5.1(5.1)	79	~(~)
26	3.9(4.1)	53	5.1(5.1)	80	~(~)
27	0.0(0.0)	54	5.1(5.1)		

IC4A0

PIN No.	
1	2.4(2.4)
2	2.6(2.6)
3	2.6(2.6)
4	0.0(0.0)
5	2.6(2.6)
6	2.6(2.6)
7	2.6(2.6)
8	4.9(5.0)

IC4A2

PIN No.	
1	0.0(0.0)
2	0.0(0.0)
3	0.0(0.0)
4	0.2(0.0)
5	0.0(0.0)
6	0.0(0.0)
7	10.2(10.1)
8	10.2(10.1)
9	0.1(0.0)
10	0.0(0.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q2S0	4.9(4.9)	4.4(4.2)	0.0(0.0)
Q2S1	5.6(5.5)	5.0(5.0)	0.0(0.0)
Q2S2	2.7(2.5)	2.1(1.9)	0.0(0.0)
Q5A0	0.0(0.0)	0.6(0.6)	0.0(0.0)
Q5A4	0.0(0.0)	~(~)	~(~)
Q5A5	5.1(5.1)	5.1(5.1)	~(~)
Q5B0	5.0(5.0)	4.7(4.7)	5.0(5.0)
Q5B1	5.0(5.0)	0.0(0.0)	4.9(5.0)
Q4B1	5.1(5.1)	5.1(5.1)	2.5(2.4)
Q4B2	5.0(5.0)	5.0(5.0)	4.9(5.0)
Q4C1	2.6(2.6)	2.6(2.6)	2.6(2.6)
Q4F0	10.2(10.2)	9.5(9.5)	10.2(10.2)
Q4F1	0.0(0.0)	5.1(5.1)	0.0(0.0)

	1	2	3	4	5	6
Q2S3	8.2(8.2)	3.7(3.6)	4.4(4.2)	0.0(0.0)	4.4(4.2)	3.7(3.6)
Q2S4	8.2(8.2)	4.4(4.2)	5.0(4.8)	0.0(0.0)	5.0(4.8)	4.4(4.2)
Q2S5	8.2(8.2)	3.3(3.3)	4.0(3.9)	0.0(0.0)	4.9(4.9)	4.3(4.2)
Q4C0	5.0(5.0)	1.8(1.8)	2.4(2.4)	0.0(0.0)	2.5(2.4)	1.8(1.8)
Q5A2	~(~)	~(~)	0.0(0.0)	~(~)	~(~)	0.0(0.0)
Q5A3	0.0(0.0)	5.0(5.0)	5.0(5.0)	0.0(0.0)	0.6(0.6)	0.0(0.0)

IC5A1

PIN No.		PIN No.	
1	5.0(5.0)	8	0.0(0.0)
2	5.1(5.1)	9	4.7(4.7)
3	4.8(5.0)	10	0.2(0.1)
4	5.1(5.1)	11	~(~)
5	5.1(5.1)	12	4.8(5.0)
6	4.7(4.7)	13	~(~)
7	0.0(0.0)	14	5.1(5.1)

IC5A2

PIN No.	
1	0.0(0.0)
2	2.5(2.5)
3	0.0(0.0)
4	0.0(0.0)
5	2.8(2.8)
6	2.5(2.5)
7	0.6(0.6)
8	5.1(5.1)

IC2S0

PIN No.	
1	4.5(4.2)
2	0.0(0.0)
3	5.3(5.3)
4	0.0(0.0)
5	5.8(5.8)
6	8.2(8.2)
7	3.7(3.4)
8	0.0(0.0)

POWER (PCB-MAIN)

IC900

PIN No.	
1	10.1
2	2.4
3	2.4
4	2.4
5	6.5
6	2.4
7	2.4
8	2.4
9	6.0
10	0.7
11	0.6
12	0.0
13	0.7
14	0.0
15	0.5
16	0.6
17	~
18	2.4
19	0.0
20	0.0
21	2.4
22	2.3
23	2.8
24	2.7

IC901

PIN No.	
1	0.0
2	10.1
3	5.0
4	9.8
5	0.0
6	9.7
7	5.0
8	9.8
9	0.0
10	9.7
11	10.1
12	9.4
13	~
14	9.6
15	10.1
16	0.0

IC980

PIN No.	
1	0.2
2	9.6
3	5.2

IC950

PIN No.	
1	2.4
2	2.4
3	2.4
4	0.0
5	2.4
6	2.4
7	1.3
8	10.1

IC952

PIN No.	
1	0.1
2	2.7
3	2.3
4	0.0
5	1.8
6	1.8
7	0.0
8	10.1

TRANSISTOR

	1(E)	2(B)	3(C)
Q901	10.1	9.7	5.2
Q902	10.1	9.7	5.2
Q930	10.2	9.6	8.9
Q931	8.9	5.1	4.6
Q932	8.3	8.9	0.0
Q933	10.2	9.5	8.6
Q934	8.6	5.1	4.5
Q963	5.2	0.5	5.1
Q983	10.2	9.6	5.2

	1	2	3	4	5	6
Q931	8.9	5.1	4.6	9.5	5.1	4.6
Q934	8.6	5.1	4.5	9.5	5.1	4.5

PCB-MDA

IC400

PIN No.		PIN No.	
1	9.9(10.1)	15	0.0(0.0)
2	~(~)	16	0.0(0.0)
3	0.0(0.0)	17	0.0(0.0)
4	4.0(3.9)	18	~(~)
5	0.0(0.0)	19	~(~)
6	0.1(0.1)	20	~(~)
7	0.4(0.4)	21	~(~)
8	3.8(3.7)	22	~(~)
9	3.9(3.5)	23	~(~)
10	2.4(2.4)	24	0.0(0.0)
11	2.6(2.6)	25	~(~)
12	3.1(3.0)	26	0.0(0.0)
13	4.6(4.8)	27	0.1(0.1)
14	0.0(0.0)	28	~(~)

IC420

PIN No.		PIN No.	
1	0.0(0.0)	11	2.6(2.5)
2	2.5(2.5)	12	2.6(2.5)
3	2.5(2.5)	13	~(~)
4	2.5(2.5)	14	0.0(0.0)
5	~(~)	15	~(~)
6	2.5(2.5)	16	~(~)
7	2.6(2.6)	17	~(~)
8	2.6(2.6)	18	0.0(0.0)
9	4.9(4.9)	19	~(~)
10	2.5(2.5)	20	2.6(2.5)

TRANSISTOR

	1(E)	2(B)	3(C)
Q400	0.0(0.0)	0.0(0.0)	4.8(4.8)
Q420	0.0(0.0)	0.3(03)	3.1(3.1)
Q450	0.0(0.0)	0.6(0.6)	0.0(00)
Q480	0.0(0.2)	0.1(0.5)	0.2(7.7)

IC421

PIN No.	
1	2.3(2.4)
2	2.4(2.4)
3	2.4(2.4)
4	0.0(0.0)
5	2.5(2.5)
6	2.8(2.5)
7	2.4(2.4)
8	4.9(4.9)

IC450

PIN No.		PIN No.	
1	0.0(0.0)	13	1.0(1.0)
2	0.0(0.0)	14	2.3(2.3)
3	0.0(0.0)	15	2.3(2.3)
4	2.1(2.1)	16	3.6(3.6)
5	0.0(0.0)	17	3.6(3.6)
6	2.1(2.0)	18	4.1(4.2)
7	5.9(5.8)	19	2.6(2.6)
8	2.1(2.0)	20	2.4(2.4)
9	0.0(0.0)	21	0.4(0.4)
10	0.0(0.0)	22	4.9(4.9)
11	3.7(3.7)	23	1.7(1.7)
12	1.0(1.0)	24	2.4(2.4)

AUDIO
(PCB-MAIN)

IC301

PIN No		PIN No.	
1	2.5(2.6)	17	0.0(0.0)
2	2.5(2.6)	18	3.2(3.2)
3	0.0(0.0)	19	2.5(2.5)
4	2.6(2.6)	20	2.5(2.5)
5	0.0(0.0)	21	2.6(2.6)
6	0.0(0.0)	22	0.0(0.0)
7	1.8(1.8)	23	0.0(0.0)
8	0.2(0.0)	24	1.9(2.0)
9	2.5(2.6)	25	0.0(0.0)
10	0.3(5.1)	26	2.0(2.0)
11	0.0(4.7)	27	5.1(5.1)
12	2.6(2.6)	28	2.0(2.0)
13	5.1(0.0)	29	5.1(5.1)
14	2.6(2.6)	30	2.0(2.0)
15	5.1(5.1)	31	2.5(2.6)
16	0.0(0.0)	32	2.3(2.5)

IC302

PIN No.	
1	4.9(4.6)
2	1.6(1.6)
3	1.4(1.0)
4	0.0(0.0)
5	2.5(2.6)
6	2.6(2.6)
7	2.5(2.6)
8	5.1(5.1)

TRANSISTOR

	1(E)	2(B)	3(C)
Q301	5.1(5.1)	0.3(5.0)	5.0(−20.6)
Q307	0.0(0.2)	0.2(0.0)	0.2(7.7)
Q308	0.0(0.0)	0.0(0.0)	0.0(4.3)
Q310	8.6(8.2)	8.6(7.5)	0.2(8.2)
Q311	8.6(8.3)	8.6(7.5)	0.2(8.1)

	1	2	3	4	5	6
Q302	0.0(0.0)	0.0(0.0)	0.7(−20.5)	0.0(−12.7)	0.7(−21.0)	
Q303	0.0(0.0)	−0.2(0.0)	0.0(0.0)	0.0(0.0)	−0.2(0.0)	0.0(0.0)
Q305	0.0(0.0)	0.0(0.0)	−0.2(0.0)	0.0(0.0)	−0.2(0.0)	

TELOP
(PCB-SIGNAL)

IC400 I

PIN No.		PIN No.		PIN No.		PIN No.	
1	0.0(0.0)	17	4.9(4.4)	33	0.0(0.0)	49	0.0(0.0)
2	0.0(0.0)	18	0.0(0.0)	34	5.0(4.9)	50	0.0(0.0)
3	3.7(3.6)	19	4.9(4.9)	35	0.0(0.0)	51	0.0(0.0)
4	0.0(0.0)	20	0.0(0.0)	36	0.3(0.3)	52	0.0(0.0)
5	3.9(3.8)	21	0.0(0.0)	37	5.0(4.9)	53	0.0(0.0)
6	3.9(3.9)	22	0.0(0.0)	38	0.3(0.3)	54	0.0(0.0)
7	0.0(0.0)	23	0.0(0.0)	39	0.0(0.0)	55	0.0(0.0)
8	0.0(0.0)	24	0.0(0.0)	40	5.0(4.9)	56	0.0(0.0)
9	0.0(0.0)	25	5.0(4.9)	41	0.0(0.0)	57	5.0(5.0)
10	4.9(4.9)	26	0.0(0.0)	42	0.0(0.0)	58	5.0(5.0)
11	0.0(0.0)	27	0.0(0.0)	43	0.0(0.0)	59	0.0(0.0)
12	0.0(0.0)	28	0.0(0.0)	44	0.5(0.0)	60	0.0(0.0)
13	0.0(0.0)	29	0.0(0.0)	45	4.5(4.9)	61	0.0(0.0)
14	0.0(0.0)	30	5.0(4.9)	46	4.9(4.9)	62	0.0(0.0)
15	0.0(0.0)	31	0.0(0.0)	47	~(~)	63	0.0(0.0)
16	0.0(0.0)	32	0.0(0.0)	48	5.0(4.9)	64	0.0(0.0)

IC4002

PIN No.		PIN No.	
1	0.0(0.0)	15	0.0(0.0)
2	0.0(0.0)	16	0.0(0.0)
3	0.0(0.0)	17	0.0(0.0)
4	0.0(0.0)	18	0.0(0.0)
5	0.0(0.0)	19	0.0(0.0)
6	0.0(0.0)	20	5.1(5.1)
7	5.0(5.0)	21	0.0(0.0)
8	0.0(0.0)	22	0.0(0.0)
9	0.0(0.0)	23	0.0(0.0)
10	0.0(0.0)	24	0.0(0.0)
11	0.0(0.0)	25	0.0(0.0)
12	0.0(0.0)	26	0.0(0.0)
13	0.0(0.0)	27	5.0(5.0)
14	0.0(0.0)	28	5.1(5.1)

IC4003

PIN No.	
1	0.0(0.0)
2	2.7(2.7)
3	2.3(2.4)
4	0.0(0.0)
5	4.9(4.9)
6	4.8(4.9)
7	4.9(4.5)
8	4.9(4.9)

IC4004

PIN No.	
1	0.0(0.0)
2	5.0(5.0)
3	0.0(0.0)
4	5.0(5.0)
5	5.0(5.0)

TRANSISTOR

	1	2	3	4	5	6
Q4001	5.0(5.0)	2.3(2.3)	2.8(2.8)	0.0(0.0)	2.8(2.8)	2.4(2.4)

VIDEO I/O
(PCB-SIGNAL)

IC2DO

PIN No.		PIN No.	
1	0.4(0.4)	22	4.2(4.2)
2	0.5(3.2)	23	2.9(2.9)
3	5.0(5.0)	24	8.6(8.5)
4	5.5(5.5)	25	5.6(5.6)
5	5.1(5.1)	26	0.0(0.0)
6	5.7(5.6)	27	5.6(5.6)
7	4.9(4.8)	28	0.0(0.0)
8	3.3(3.2)	29	5.6(5.6)
9	4.4(4.3)	30	0.6(0.6)
10	4.4(4.2)	31	5.6(5.6)
11	0.5(3.3)	32	5.6(5.6)
12	5.0(5.0)	33	4.2(4.2)
13	0.0(0.0)	34	5.6(5.6)
14	0.6(0.6)	35	4.2(4.2)
15	4.4(4.2)	36	4.5(4.5)
16	0.0(0.0)	37	0.0(0.0)
17	0.0(0.0)	38	8.4(8.4)
18	0.0(0.0)	39	3.2(3.2)
19	0.0(0.0)	40	3.4(3.4)
20	0.0(0.0)	41	2.3(2.3)
21	3.9(3.9)	42	1.9(1.9)

IC2PO

PIN No.	
1	0.0(0.0)
2	4.9(4.8)
3	1.9(1.9)
4	0.0(0.0)
5	0.0(0.0)
6	3.9(3.9)
7	4.2(4.1)
8	2.2(2.1)
9	3.7(3.6)
10	3.7(3.6)
11	3.9(3.9)
12	0.0(0.0)
13	2.7(2.8)
14	3.0(2.9)
15	0.5(3.2)
16	0.0(0.0)
17	0.0(0.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q2D1	0.6(0.6)	0.0(0.0)	0.0(0.0)
Q2D2	0.6(0.6)	0.0(0.0)	0.0(0.0)
Q2L0	0.5(0.6)	1.1(1.2)	8.5(8.4)

	1	2	3	4	5	6
Q2D0	8.4(8.4)	4.9(4.9)	5.1(5.1)	8.5(8.4)	4.9(4.9)	4.7(5.1)
Q2G0	5.0(5.0)	0.0(0.0)	0.0(0.0)	5.0(5.0)	0.0(0.0)	0.0(0.0)
Q2L1	8.4(8.4)	0.1(0.1)	0.7(0.8)	0.0(0.0)	0.5(0.6)	0.1(0.1)
Q2P0	0.0(0.0)	0.0(0.0)	2.7(2.7)	0.0(2.8)	2.2(2.3)	
Q2P1	0.0(0.0)	0.0(0.0)	2.1(2.2)	1.1(1.2)	0.5(0.6)	

CHROMA (PCB-SIGNAL)

IC601

PIN No.		PIN No.	
1	~(1.3)	23	2.2(2.3)
2	3.6(3.6)	24	2.2(2.3)
3	4.8(4.8)	25	2.1(2.1)
4	2.9(3.0)	26	2.9(3.0)
5	3.1(3.1)	27	4.4(4.5)
6	4.8(3.4)	28	0.0(0.0)
7	3.1(3.1)	29	~(0.7)
8	4.9(4.9)	30	3.0(3.6)
9	4.0(4.0)	31	3.5(0.0)
10	0.0(0.0)	32	2.7(3.0)
11	3.5(3.5)	33	1.1(1.2)
12	2.7(2.8)	34	2.2(2.3)
13	2.9(2.9)	35	1.2(1.2)
14	2.9(2.9)	36	2.9(2.9)
15	1.8(1.9)	37	4.8(4.8)
16	0.0(0.0)	38	4.7(4.8)
17	3.4(3.5)	39	2.9(2.9)
18	4.9(4.9)	40	0.0(0.0)
19	3.6(3.7)	41	3.0(2.3)
20	0.0(0.0)	42	1.3(0.1)
21	4.1(4.1)	43	1.3(0.1)
22	0.0(0.0)	44	2.9(3.1)

IC602

PIN No.	
1	0.0(0.0)
2	3.5(0.0)
3	0.0(0.0)
4	2.7(2.7)
5	0.0(0.0)
6	4.0(4.0)
7	4.7(4.8)
8	5.0(5.0)
9	4.0(4.0)
10	4.9(4.9)
11	2.7(2.7)
12	1.4(1.5)
13	0.8(0.8)
14	3.2(3.2)
15	3.4(3.4)
16	1.3(1.3)
17	4.0(4.0)
18	1.0(1.0)
19	4.8(4.9)
20	0.7(0.7)

IC603

PIN No.	
1	0.0(0.0)
2	0.0(0.0)
3	2.7(0.0)
4	0.0(0.0)
5	2.7(0.0)
6	0.0(0.0)
7	0.2(0.0)
8	4.8(0.2)
9	2.4(0.0)
10	2.4(0.0)
11	0.2(0.0)
12	3.0(0.0)
13	3.0(0.0)
14	3.7(0.2)
15	0.0(0.0)
16	3.0(0.0)

IC604

PIN No.	
1	3.0(2.9)
2	0.0(0.0)
3	3.0(3.0)
4	0.0(5.0)
5	3.0(3.0)
6	5.0(5.0)
7	2.2(2.2)
8	0.0(0.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q601	1.6(1.7)	2.3(2.4)	4.8(4.9)
Q602	2.8(2.9)	3.5(3.5)	4.9(4.9)
Q603	1.7(1.7)	2.3(2.4)	5.0(5.0)
Q604	2.7(2.8)	3.4(3.5)	5.0(5.0)
Q610	0.0(0.0)	4.5(4.6)	0.0(0.0)
Q613	4.0(4.0)	3.3(3.3)	2.1(2.2)
Q615	3.1(0.2)	2.4(0.0)	1.0(0.0)
Q616	5.0(5.1)	5.0(5.0)	0.0(0.0)
Q617	1.1(0.0)	1.8(1.8)	3.9(3.9)
Q618	1.6(0.2)	1.0(0.0)	0.0(0.0)

	1	2	3	4	5	6
Q606	1.4(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.6(0.0)	
Q607	1.7(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.6(0.0)	
Q614	0.0(0.0)	3.0(0.0)	2.4(0.0)	3.5(0.2)	0.0(0.0)	0.0(0.0)

PCB-LCD

IC8A1

PIN No.		PIN No.		PIN No.		PIN No.		PIN No.		PIN No.		PIN No.	
1	0.0(0.0)	12	4.4(4.4)	23	0.0(0.0)	34	0.0(0.0)	45	~(~)	56	——	67	~(~)
2	~(~)	13	3.8(0.1)	24	0.0(0.0)	35	5.1(5.1)	46	~(~)	57	——	68	~(~)
3	~(~)	14	0.0(0.0)	25	2.2(2.2)	36	0.0(0.0)	47	~(~)	58	~(~)	69	~(~)
4	0.0(3.5)	15	1.0(4.9)	26	2.2(2.2)	37	5.1(5.1)	48	~(~)	59	~(~)	70	~(~)
5	5.0(5.0)	16	5.0(5.0)	27	2.2(2.2)	38	0.0(0.0)	49	~(~)	60	~(~)	71	~(~)
6	0.0(0.0)	17	4.9(4.9)	28	2.2(2.2)	39	5.1(5.1)	50	~(~)	61	1.7(1.7)	72	0.0(0.0)
7	~(~)	18	1.0(0.0)	29	0.0(0.0)	40	~(~)	51	~(~)	62	3.4(3.3)		
8	~(5.1)	19	5.1(5.1)	30	5.1(5.1)	41	0.0(0.0)	52	~(~)	63	5.1(5.1)		
9	~(~)	20	0.0(0.0)	31	0.1(0.0)	42	0.0(0.0)	53	~(~)	64	2.7(2.5)		
10	0.0(0.0)	21	0.1(0.1)	32	5.1(5.1)	43	~(~)	54	~(~)	65	0.0(0.0)		
11	5.1(0.0)	22	0.0(0.0)	33	0.0(0.0)	44	2.5(2.6)	55	~(~)	66	~(~)		

TRANSISTOR

	1(E)	2(B)	3(C)
Q8A1	5.1(5.1)	5.1(0.0)	0.0(5.1)
Q8A2	0.0(0.0)	0.0(5.1)	5.3(0.1)

Y
(PCB-SIGNAL)

IC2001

PIN No.		PIN No.	
1	1.4(1.0)	23	2.1(2.1)
2	0.5(0.5)	24	3.8(3.0)
3	4.7(4.7)	25	3.4(2.2)
4	1.3(1.6)	26	4.9(4.9)
5	1.3(1.5)	27	3.1(3.2)
6	4.7(4.7)	28	2.2(2.2)
7	2.4(2.4)	29	2.9(2.9)
8	0.6(2.8)	30	2.1(2.2)
9	3.1(3.2)	31	2.3(2.4)
10	3.3(3.5)	32	2.6(2.8)
11	2.2(2.7)	33	2.8(4.6)
12	0.0(0.0)	34	2.7(2.7)
13	4.8(0.3)	35	1.8(1.5)
14	~(~)	36	0.0(0.0)
15	4.9(5.0)	37	0.0(0.0)
16	1.7(0.0)	38	0.0(1.7)
17	0.0(0.0)	39	1.5(1.4)
18	1.7(1.8)	40	1.4(3.2)
19	2.3(2.6)	41	3.2(0.0)
20	5.0(−0.1)	42	0.0(0.0)
21	2.0(0.0)	43	0.0(0.1)
22	0.0(5.0)	44	0.2(0.2)

IC2002

PIN No.	
1	4.8(5.0)
2	5.0(5.0)
3	0.0(0.0)
4	1.6(1.7)
5	0.0(0.0)
6	8.9(8.9)
7	4.1(4.3)

IC2003

PIN No.	
1	0.0(0.0)
2	3.4(3.3)
3	3.5(0.0)
4	1.9(1.9)
5	4.9(4.9)
6	1.5(1.5)
7	3.4(3.4)
8	0.2(−0.1)

IC2004

PIN No.	
1	2.7(0.2)
2	4.7(0.2)
3	0.0(0.0)
4	5.0(5.0)
5	2.8(0.0)
6	0.0(0.0)
7	0.0(0.0)
8	1.6(2.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q2004	1.5(1.4)	0.9(0.7)	0.0(0.0)
Q2005	1.7(1.4)	1.1(0.8)	0.0(0.0)
Q2011	2.3(2.2)	3.0(3.0)	4.7(4.7)
Q2012	2.2(2.2)	1.6(1.5)	0.0(0.0)
Q2013	0.0(0.0)	0.0(0.0)	0.3(0.0)
Q2015	0.0(0.0)	0.0(0.0)	0.2(0.0)
Q2016	1.6(2.0)	2.3(2.7)	5.0(5.0)
Q2017	5.5(5.5)	6.2(6.1)	8.9(8.9)
Q2032	4.7(4.7)	0.2(0.1)	4.7(4.7)
Q2034	4.9(0.2)	1.4(0.9)	4.9(0.4)
Q2036	4.9(5.0)	5.0(5.0)	1.8(1.8)
Q2038	0.0(0.0)	0.7(0.7)	0.0(0.0)
Q2101	1.3(0.0)	1.9(0.0)	3.5(0.2)
Q2102	1.8(0.0)	2.5(0.0)	4.7(0.2)
Q2109	0.0(0.0)	5.0(5.0)	0.0(0.0)
Q2110	0.0(0.0)	3.4(3.6)	0.0(0.0)
Q2201	1.2(1.6)	0.6(0.9)	0.0(0.0)
Q2401	5.1(5.1)	5.1(4.4)	0.0(5.0)
Q2402	5.1(5.1)	4.3(5.1)	4.9(0.2)
Q 404	5.1(5.1)	4.9(4.9)	1.4(1.0)
Q2406	5.0(5.0)	0.2(0.1)	5.0(5.0)
Q2407	4.9(0.2)	0.0(0.0)	4.9(0.0)
Q2408	5.1(5.1)	0.0(0.0)	5.0(5.0)
Q2409	5.1(5.1)	5.1(5.0)	0.0(0.0)

	1	2	3	4	5
Q2014	0.4(0.0)	0.0(0.0)	0.0(0.0)	0.0(0.0)	0.6(0.6)

OPERATION (PCB-MAIN)

IC8000

PIN No.		PIN No.	
1	0.0(0.0)	17	0.8(0.8)
2	4.7(4.7)	18	4.9(4.9)
3	4.9(4.9)	19	0.0(0.0)
4	2.2(2.2)	20	0.0(0.0)
5	2.2(2.2)	21	0.0(0.0)
6	0.0(0.0)	22	0.0(0.0)
7	~(~)	23	0.0(0.0)
8	~(~)	24	0.0(0.1)
9	~(~)	25	0.0(0.0)
10	4.9(4.9)	26	0.0(0.0)
11	0.0(0.0)	27	4.9(4.9)
12	4.2(4.3)	28	4.9(4.9)
13	4.2(4.3)	29	0.3(0.3)
14	0.6(0.6)	30	0.2(0.2)
15	1.6(1.6)	31	0.0(0.0)
16	0.6(0.6)	32	5.0(5.0)

IC8001

PIN No.	
1	5.0(5.0)
2	~(~)
3	~(~)
4	~(~)
5	~(~)
6	~(~)
7	0.0(0.0)
8	0.0(0.0)
9	~(~)
10	~(~)
11	~(~)
12	4.7(4.7)
13	~(~)
14	5.0(5.0)

TRANSISTOR

	1(E)	2(B)	3(C)
Q8002	0.0(0.0)	0.0(0.0)	5.0(5.0)
Q8004	0.0(0.0)	3.9(4.1)	0.0(0.0)
Q8005	0.0(0.0)	0.6(0.6)	0.2(0.2)
Q8006	4.9(4.9)	4.2(4.2)	0.0(0.0)

	1	2	3	4	5	6
Q8003	5.0(5.0)	0.0(0.0)	0.0(0.0)	5.0(5.0)	0.0(0.0)	0.0(0.0)

PCB-OPERATION SUB

IC8700

PIN No.		PIN No.		PIN No.	
1	~(~)	23	0.0(0.0)	45	4.3(~)
2	~(~)	24	5.1(5.1)	46	4.8(~)
3	~(~)	25	0.0(0.0)	47	5.1(5.1)
4	~(~)	26	2.5(2.5)	48	4.9(~)
5	~(~)	27	0.0(0.0)	49	4.6(~)
6	5.0(5.0)	28	~(~)	50	4.9(~)
7	5.1(5.1)	29	4.9(4.9)	51	~(~)
8	0.0(0.0)	30	0.3(0.1)	52	~(~)
9	5.0(5.0)	31	~(~)	53	0.1(0.1)
10	4.8(5.0)	32	~(~)	54	0.1(0.1)
11	~(~)	33	5.0(~)	55	5.1(5.1)
12	~(~)	34	4.1(~)	56	5.1(5.1)
13	~(~)	35	4.2(~)	57	0.0(0.0)
14	5.1(5.1)	36	4.1(~)	58	5.1(5.1)
15	5.1(5.1)	37	5.1(~)	59	5.1(5.1)
16	~(~)	38	0.0(0.0)	60	5.1(5.1)
17	~(~)	39	5.1(5.1)	61	~(~)
18	4.9(5.0)	40	0.0(0.0)	62	5.1(5.1)
19	0.0(0.0)	41	5.1(5.1)	63	0.6(0.6)
20	5.1(5.1)	42	5.1(5.1)	64	4.0(4.0)
21	2.3(2.3)	43	4.3(~)		
22	1.5(1.5)	44	5.1(5.1)		

IC8701

PIN No.	
1	1.6(1.6)
2	0.0(0.0)
3	~(~)
4	~(~)
5	~(~)
6	1.6(1.6)
7	1.6(1.6)
8	0.0(0.0)
9	0.0(0.0)
10	0.0(0.0)
11	0.0(0.0)
12	0.0(0.0)
13	0.4(0.1)
14	0.0(0.0)

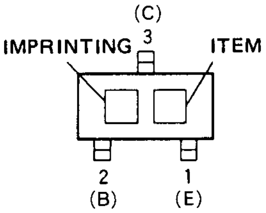
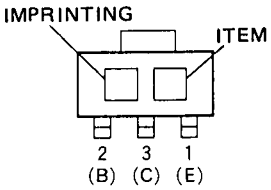
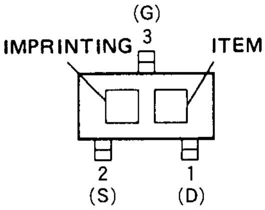
TRANSISTOR

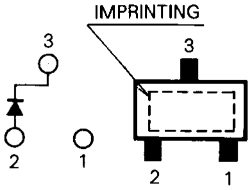
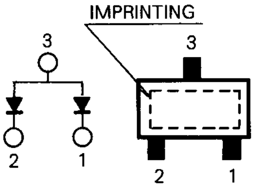
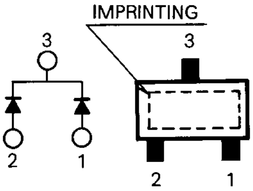
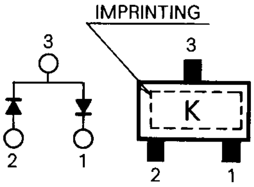
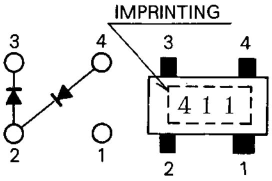
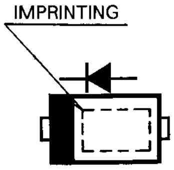
	1(E)	2(B)	3(C)
Q8701	0.0(0.0)	0.0(0.0)	5.1(5.1)
Q8704	0.0(0.0)	5.1(5.1)	0.0(0.0)
Q8705	0.7(0.6)	5.1(5.1)	0.0(0.0)
Q8706	5.2(5.2)	4.5(4.5)	5.1(5.1)
Q8707	0.0(0.0)	0.0(0.0)	5.1(4.0)
Q8708	5.2(5.2)	4.4(4.4)	5.1(5.2)
Q8709	0.0(0.0)	0.0(0.0)	5.1(5.1)
Q8721	0.0(0.0)	5.1(5.1)	0.0(0.0)
Q8722	5.1(5.1)	5.1(5.1)	0.0(0.0)
Q8723	5.1(5.1)	5.1(5.1)	0.0(0.0)
Q8724	0.0(0.0)	0.0(0.0)	1.6(1.6)
Q8725	0.0(0.0)	0.0(0.0)	1.6(1.6)
Q8726	5.0(5.0)	5.1(5.1)	5.1(5.1)
Q8727	0.7(0.6)	0.3(0.2)	0.6(0.6)

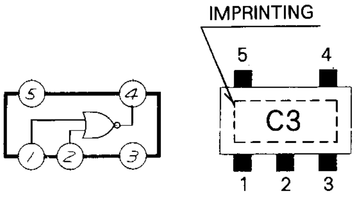
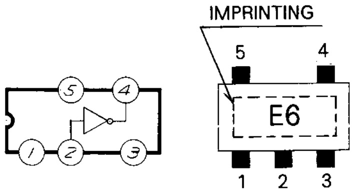
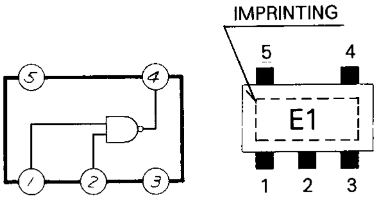
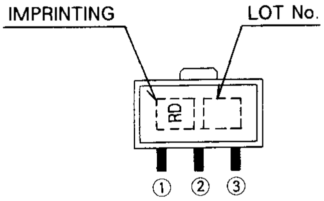
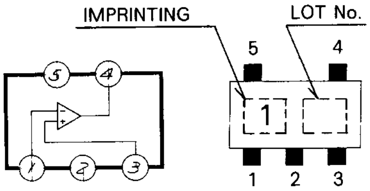
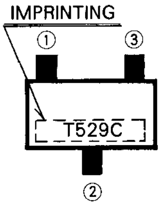
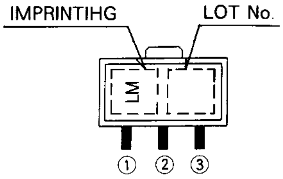
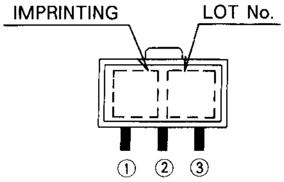
	1	2	3	4	5
Q8720	0.0(0.0)	0.0(0.0)	0.4(0.5)	0.0(0.0)	0.0(0.0)

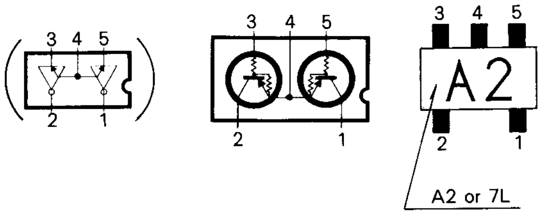
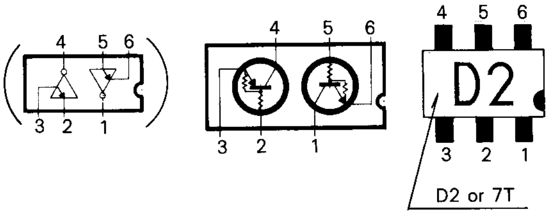
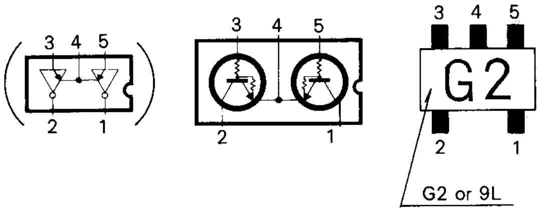
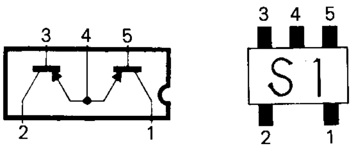
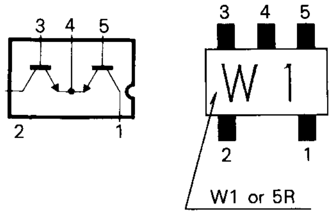
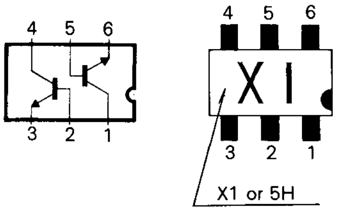
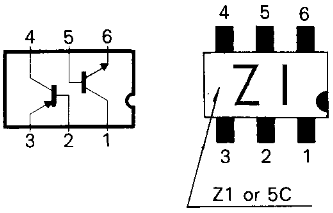
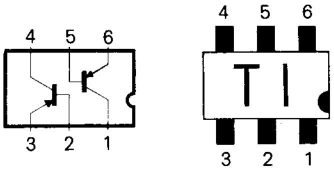
	1	2	3
IC8702	5.1(5.1)	5.(5.2)	0.0(0:0)
IC8703	0.0(0.0)	5.1(5.1)	1.6(1.6)

CHIP PARTS SHAPES

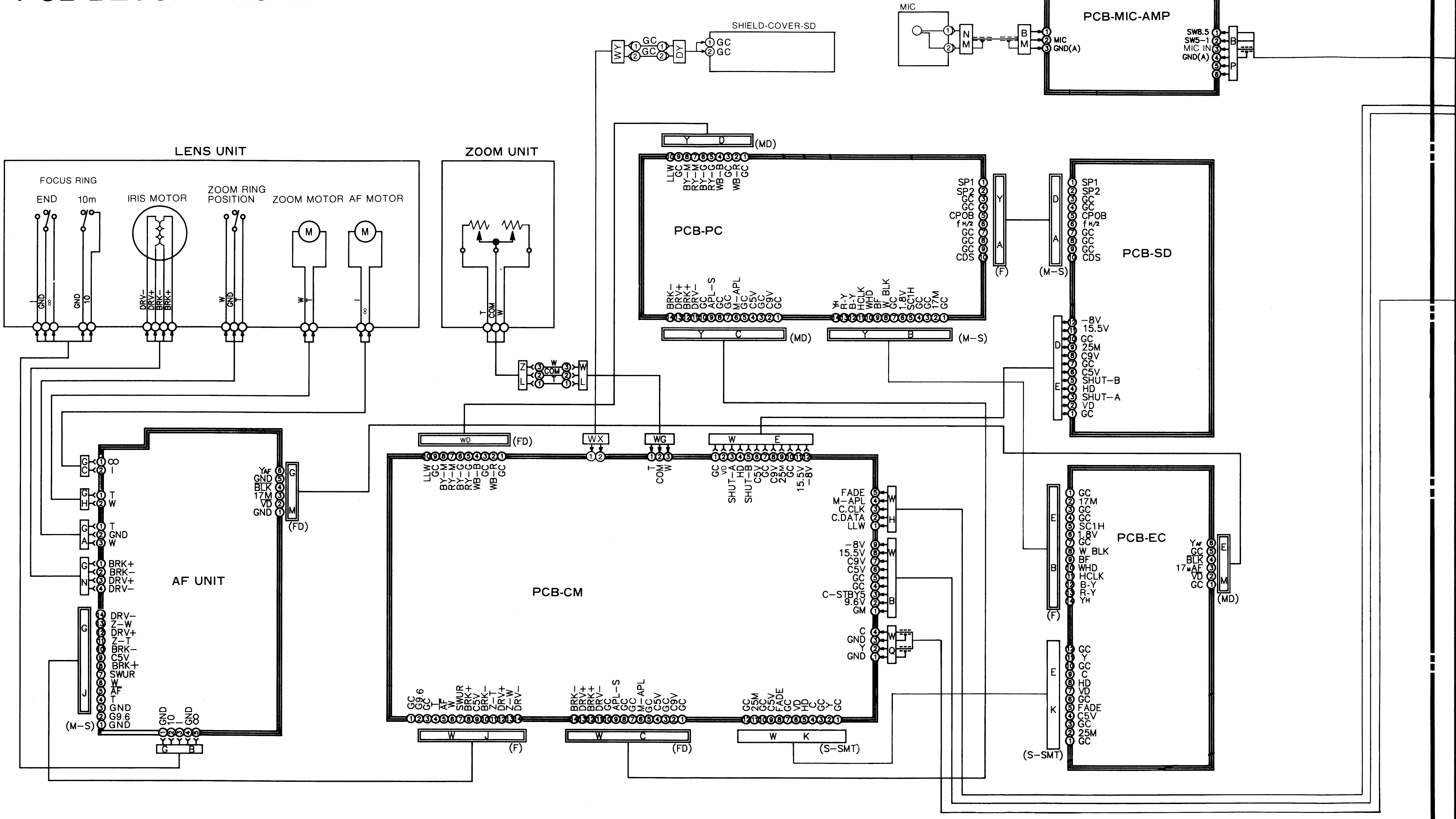
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP TRANSISTOR			
2SA1235-F.G	MF, MG	260P802090	
2SA1576-R/2SB1218A-R	FR, BR	260P859020	
2SA1576-R	FR	260P859050	
2SA1577-Q/2SB1219A-R	HQ, DR	260P861020	
2SA1577-Q	HQ	260P861050	
2SC4081-Q/2SD1819A-Q	BQ, ZQ	260P855010	
2SC4081-R/2SD1819A-R	BR, ZR	260P855020	
2SC4098-P/2SC3936-B	AP, KB	260P854020	
2SC4098-Q/2SC3936-C	AQ, KC	260P854030	
2SD1819A-Q	ZQ	260P855070	
2SD1949-Q/2SD1820A-R	YQ, XR	260P867020	
2SD1949-R	YR	260P867060	
DTA144EU/UN5113	16, 6C	260P856010	
DTC114EK	24	260P808010	
DTC144EU/UN5213	26, 8C	260P857010	
DTC144EU	26	260P857020	
DTA114EU/UN5111	14, 6A	260P858010	
2SB798-DK	DK	260P482010	
2SB1114-ZL	ZL	260P847010	
2SC3736-OK	OK	260P866010	
2SD999-CK	CK	260P865010	
2SK209GR	XG	260P864010	

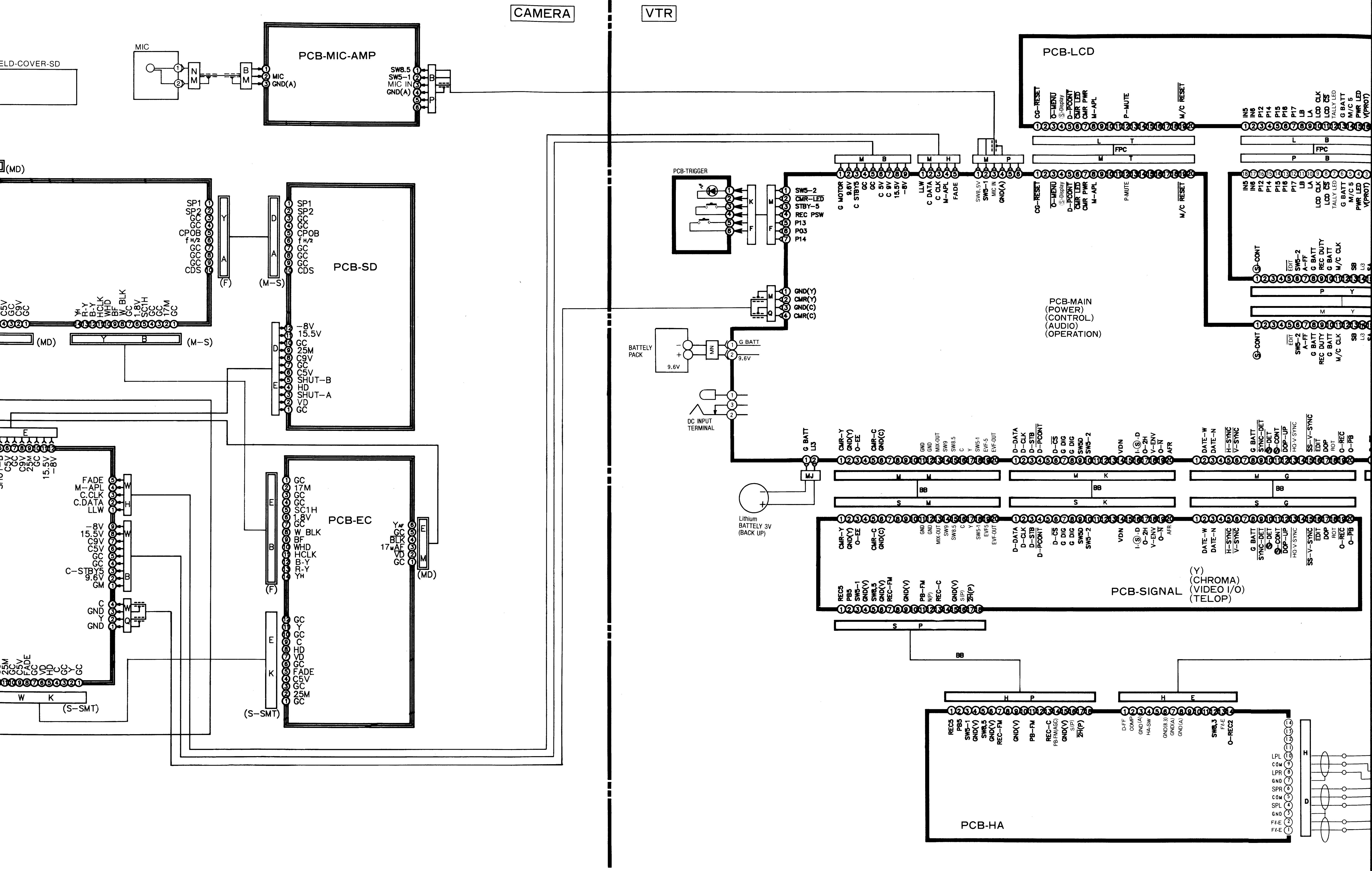
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP DIODE			
RD5.1MB1	511	264P815060	 IMPRINTING 3 3 2 1 2 1
RD7.5MB2	752	264P816050	
DAP202U/MA142WA	P or MO	264P814010	DAP202U P MA142WA MO  IMPRINTING 3 3 2 1 2 1
MA142WA	MO	264P814030	
DAN202U/MA142WK	N or MU	264P828010	DAN202U N MA142WK MU  IMPRINTING 3 3 2 1 2 1
DA204U	K	264P830020	 IMPRINTING 3 3 K 2 1 2 1
ND411G-2	411	264P833010	 IMPRINTING 3 4 3 4 411 2 1 2 1
SPB-54V	B54	264P831010	 IMPRINTING
SFPB-64V	B64	264P832010	

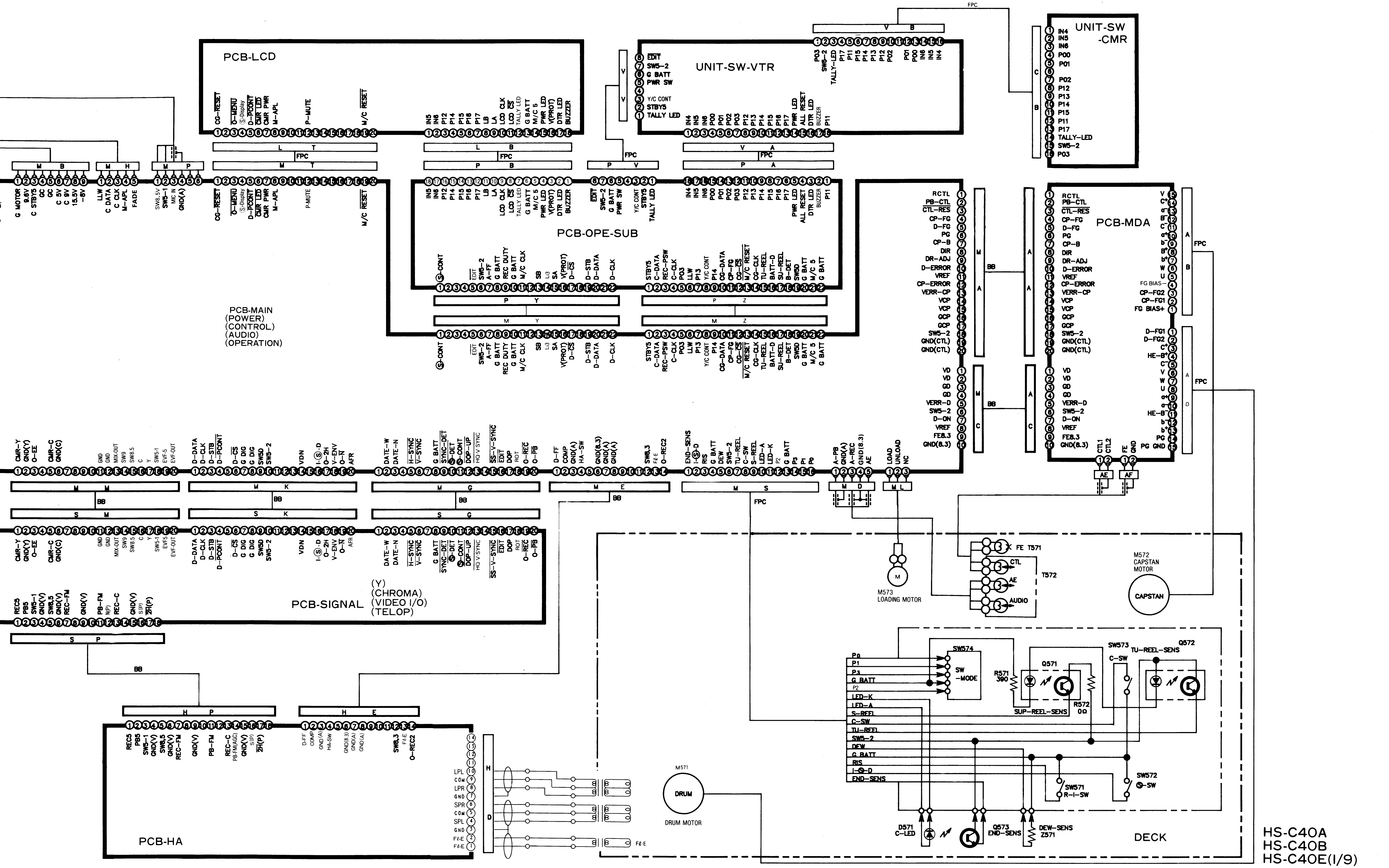
DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP IC			
SC14S01F	C3	263P223010	 IMPRINTING 5 4 C3 1 2 3
SC7SU04F	E6	263P220010	 IMPRINTING 5 4 E6 1 2 3
SC7S00F	E1	263P230010	 IMPRINTING 5 4 E1 1 2 3
S-81250HG-RD-T1	RD	272P360010	①Vss ②VIN ③VOUT  IMPRINTING LOT No. RD ① ② ③
NJM2406F	1	272P364010	 IMPRINTING LOT No. 5 4 1 1 2 3
PST529C	T529C	272P357010	①IN ②GND ③OUT  IMPRINTING ① ③ T529C ②
S-8054ALB-LM-T1	LM	272P362010	①OUT ②VDD ③Vss  IMPRINTIHG LOT No. LM ① ② ③
S-81215AG-RK-T1 /RH5RA16AA	RK or 6A	272P359010	①GND ②VIN ③VOUT  IMPRINTING LOT No. ① ② ③

DESCRIPTION	IMPRINTING	PARTS No.	SHAPES
CHIP TRANSISTOR			
FMA2/XN1113	A2 or 7L	260P853010	 3 4 5 2 1 A2 A2 or 7L
IMD2/XN4312	D2 or 7T	260P850010	 4 5 6 3 2 1 D2 D2 or 7T
FGM2/XN1213	G2 or 9L	260P852010	 3 4 5 2 1 G2 G2 or 9L
FMS1	S1	260P843010	
FMW1/XN1501	W1 or 5R	260P844020	 3 4 5 2 1 W1 W1 or 5R
IMX1/XN4501	X1 or 5H	260P845020	 4 5 6 3 2 1 X1 X1 or 5H
IMZ1/XN4601	Z1 or 5C	260P849020	 4 5 6 3 2 1 Z1 Z1 or 5C
IMT1	T1	260P863010	

PCB-BLOCK-DIAGRAM

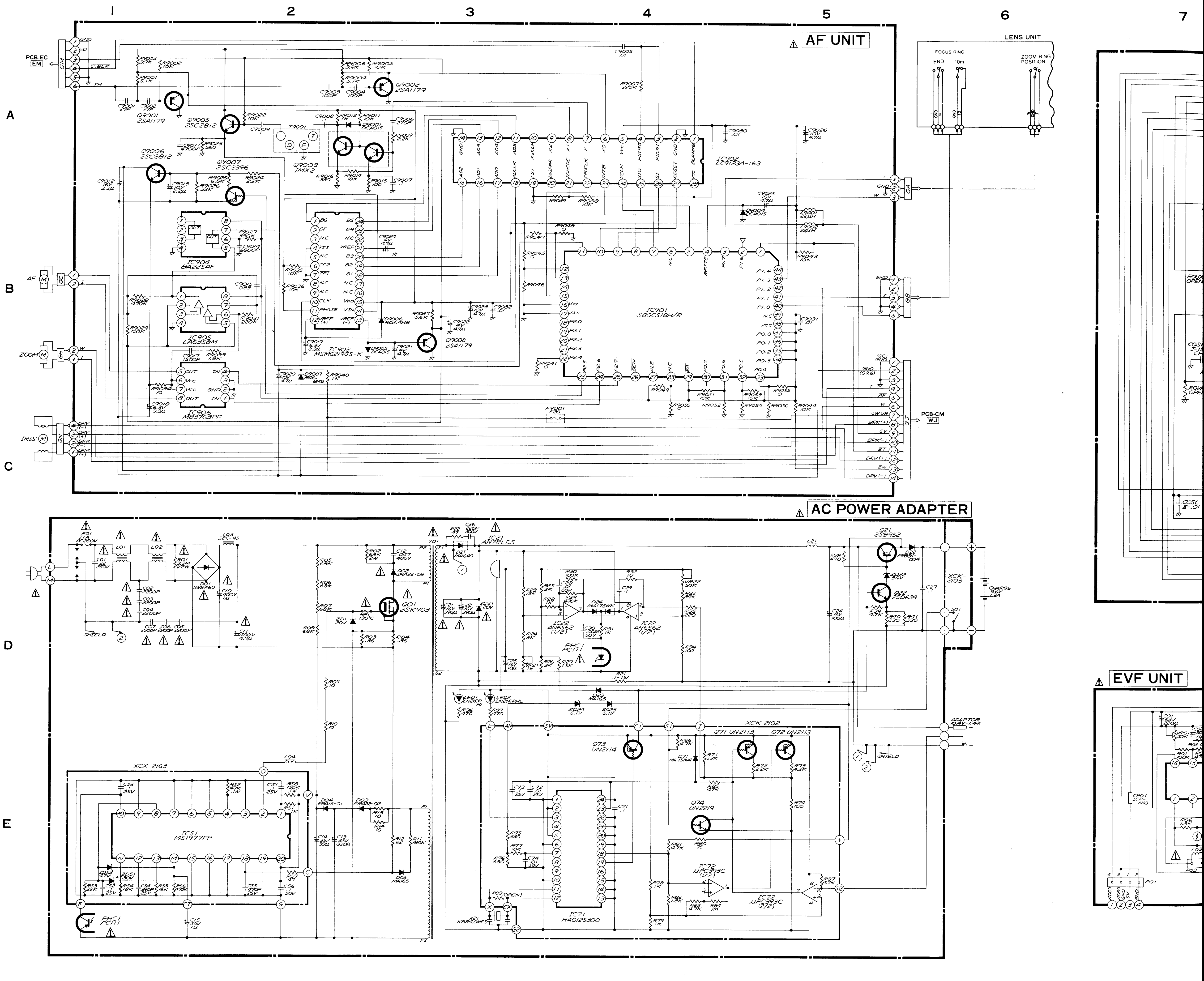

MIC
PCB-MIC-AMP
MIC
GND(A)
SW8.5
SW5-1
MIC IN
GND(A)
SHIELD-COVER-SD
GC
GC
WY
DY
LENS UNIT
FOCUS RING
END
10m
IRIS MOTOR
ZOOM RING POSITION
ZOOM MOTOR
AF MOTOR
M
GND
∞
10
DRV-
DRV+
BRK-
BRK+
T
W
ZOOM UNIT
COM
PCB-PC
(MD)
LLW
BY-M
RY-M
BY-G
RY-G
WB-B
WB-R
SP1
SP2
CPOB
fH/2
CDS
BRK-
DRV+
BRK+
DRV-
APL-S
M-APL
C5V
C9V
YH
R-Y
B-Y
HCLK
WHD
BF
W BLK
1.8V
SC1H
17M
(F)
(M-S)
PCB-SD
-8V
15.5V
25M
SHUT-B
HD
SHUT-A
VD
AF UNIT
YAF
BLK
VD
(FD)
BRK+
BRK-
DRV+
DRV-
Z-W
Z-T
C5V
SWUR
AF
G9.6
PCB-CM
WD
WX
WG
FADE
M-APL
C.CLK
C.DATA
LLW
C9V
C5V
C-STBY5
9.6V
GM
C
GND
Y
PCB-EC
SC1H
W BLK
BF
WHD
HCLK
B-Y
R-Y
YH
(S-SMT)

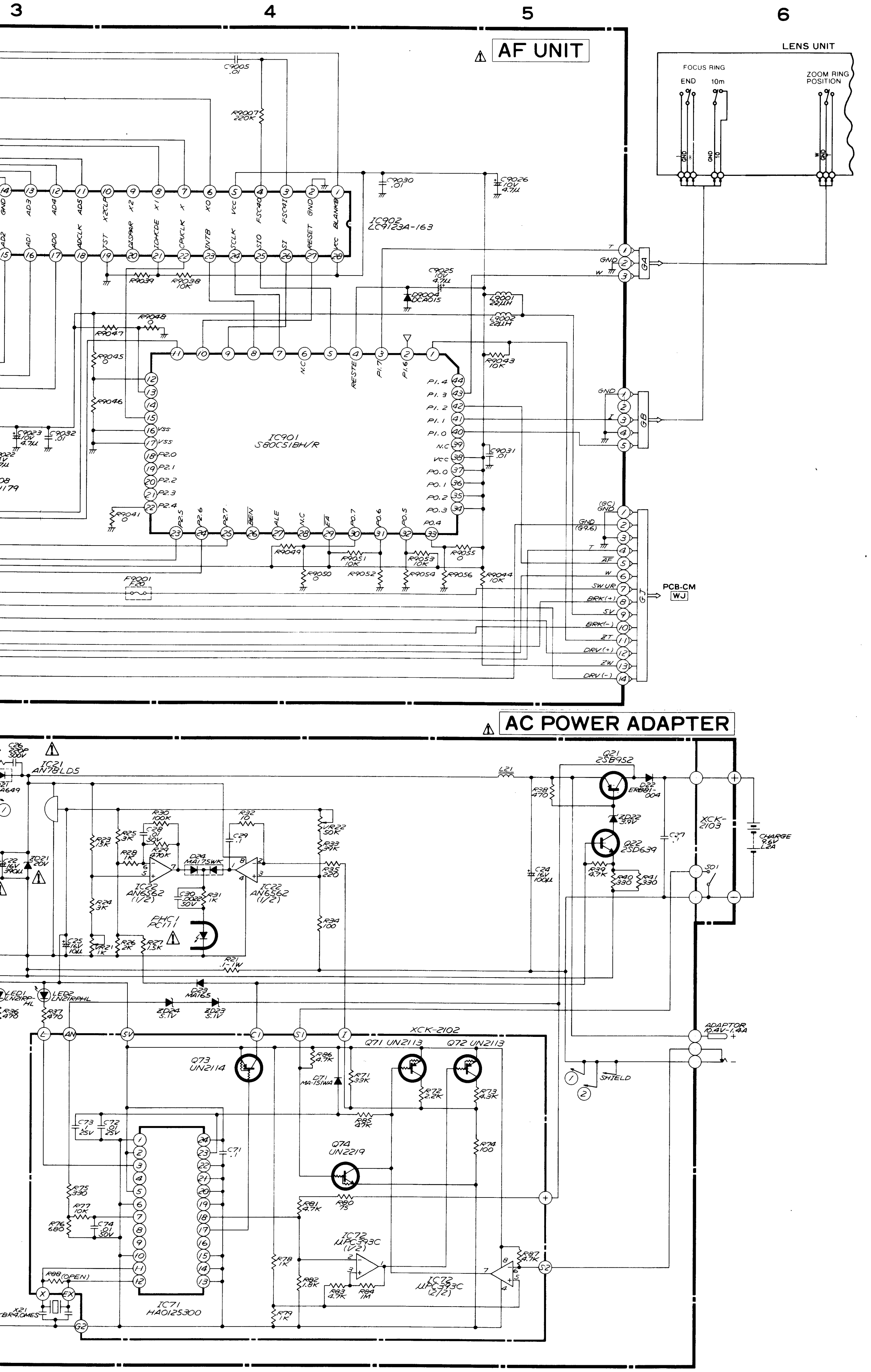

CAMERA
VTR
MIC
PCB-MIC-AMP
ELD-COVER-SD
PCB-SD
PCB-EC
PCB-LCD
PCB-TRIGGER
PCB-MAIN
(POWER)
(CONTROL)
(AUDIO)
(OPERATION)
BATTELY PACK
9.6V
G BATT
DC INPUT TERMINAL
Lithium BATTELY 3V (BACK UP)
PCB-SIGNAL
(Y)
(CHROMA)
(VIDEO I/O)
(TELOP)
PCB-HA
FPC
BB
(MD)
(M-S)
(F)
(S-SMT)
SW8.5
SW5-1
MIC IN
GND(A)
SW5-2
CMR-LED
STBY-5
REC PSW
P13
P03
P14
GND(Y)
CMR(Y)
GND(C)
CMR(C)
LPL
COM
LPR
GND
SPR
SPL
FE-E

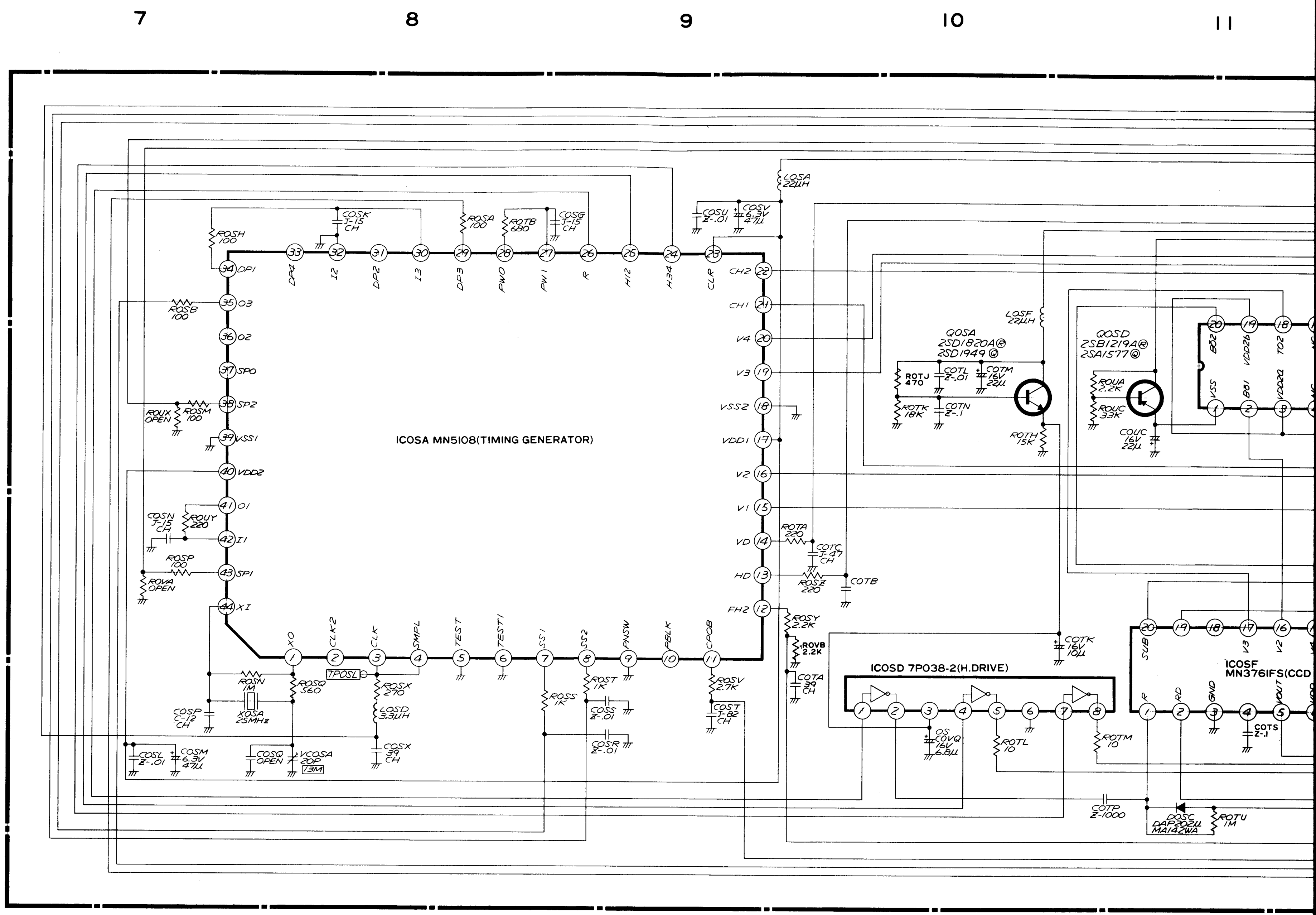


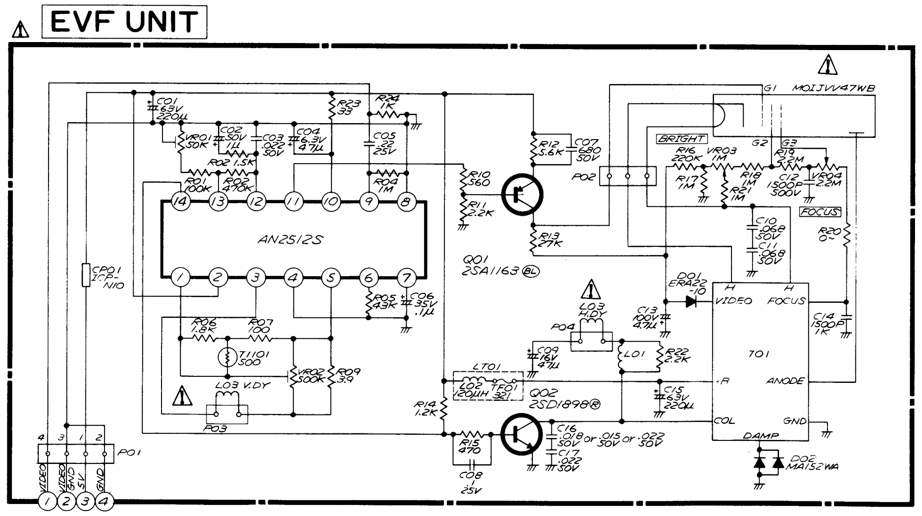
PCB-LCD
UNIT-SW-VTR
UNIT-SW-CMR
PCB-OPE-SUB
PCB-MAIN
(POWER)
(CONTROL)
(AUDIO)
(OPERATION)
PCB-MDA
PCB-SIGNAL
(Y)
(CHROMA)
(VIDEO I/O)
(TELOP)
PCB-HA
DECK
FPC
BB
M573 LOADING MOTOR
M572 CAPSTAN MOTOR
CAPSTAN
M571
DRUM
DRUM MOTOR
FE T571
CTL
AE
AUDIO
T572
SW574
SW -MODE
R571 390
Q571
SUP-REEL-SENS
R572 0Ω
SW573 C-SW
TU-REEL-SENS
Q572
SW571 R-I-SW
SW572 Ⓢ-SW
D571 C-LED
Q573 END-SENS
DEW-SENS Z571
G MOTOR
9.6V
C STBY5
GC
C 5V
C 9V
15.5V
-8V
LLW
C DATA
C CLK
M-APL
FADE
SW8.5V
SW5-1
MIC IN
GND(A)
CG-RESET
O-MENU
Ⓢ-Display
D-PCONT
CMR LED
CMR PWR
P-MUTE
M/C RESET
EDIT
SW5-2
G BATT
PWR SW
Y/C CONT
STBY5
TALLY LED
RCTL
PB-CTL
CTL-RES
CP-FG
D-FG
PG
CP-B
DIR
DR-ADJ
D-ERROR
VREF
CP-ERROR
VERR-CP
VCP
GCP
GND(CTL)
VD
GD
VERR-D
D-ON
FE8.3
GND(8.3)
FG BIAS+
FG BIAS−
CP-FG1
CP-FG2
D-FG1
D-FG2
HE-B+
HE-B
CMR-Y
GND(Y)
O-EE
CMR-C
GND(C)
D-DATA
D-CLK
D-STB
D-CS
G DIG
SW5D
VDN
I-Ⓢ-D
O-2H
V-ENV
O-N
AFR
DATE-W
DATE-N
H-SYNC
V-SYNC
SYNC-DET
Ⓢ-DET
Ⓢ-CONT
DOP-UP
SS-V-SYNC
D-FF
COMP
HA-SW
SW8.3
O-REC2
END-SENS
RIS
DEW
TU-REEL
C-SW
S-REEL
LED-K
LED-A
A-PB
A-REC
AE
LOAD
UNLOAD
NC
REC5
PB5
PB-FM
REC-C
2H(P)
LPL
COM
LPR
GND
SPR
SPL
Fℓ-E
P0
P1
P2
P3

HS-C40A
HS-C40B
HS-C40E(1/9)

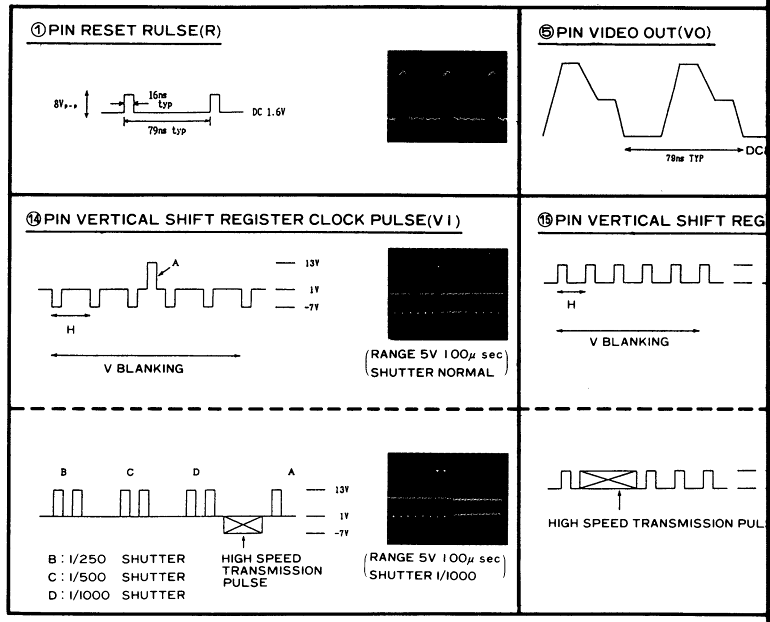

1
2
3
4
5
6
7
A
B
C
D
E
AF UNIT
LENS UNIT
FOCUS RING
END
10m
ZOOM RING POSITION
PCB-EC
EM
PCB-CM
WJ
AF
ZOOM
IRIS
Q9001 2SA1179
Q9002 2SA1179
Q9005 2SC2812
Q9006 2SC2812
Q9007 2SC3396
Q9003 IMX2
Q9008 2SA1179
IC902 LC9123A-163
IC901 S80C51BH/R
IC903 MSM6219SS-K
IC904 BA225AF
IC905 LA6358M
IC906 MB3763PF
AC POWER ADAPTER
Q01 2SK903
Q21 2SB952
Q22 2SD639
IC21 AN78LDS
IC22 AN6562 (1/2)
PHC1 PC111
XCK-2103
XCK-2102
XCX-2163
IC51 M51977FP
Q71 UN2113
Q72 UN2113
Q73 UN2114
Q74 UN2219
IC71 HA012S300
IC72 µPC393C (1/2)
IC72 µPC393C (2/2)
CHARGE 9.6V 1.2A
ADAPTOR 10.4V-1.4A
SHIELD
EVF UNIT


3
4
5
6
AF UNIT
IC902 LC49123A-163
IC901 S80C51BH/R
LENS UNIT
FOCUS RING
END
10m
ZOOM RING POSITION
G4
G8
PCB-CM
WJ
AC POWER ADAPTER
IC21 AN78L05
IC22 AN6562 (1/2)
IC22 AN6562 (1/2)
PHC1 PC111
Q21 2SB952
Q22 2SD639
XCK-2103
CHARGE
XCK-2102
Q73 UN2114
Q71 UN2113
Q72 UN2113
Q74 UN2219
IC72 μPC393C (1/2)
IC72 μPC393C (2/2)
IC71 HA0125300
ADAPTOR
SHIELD

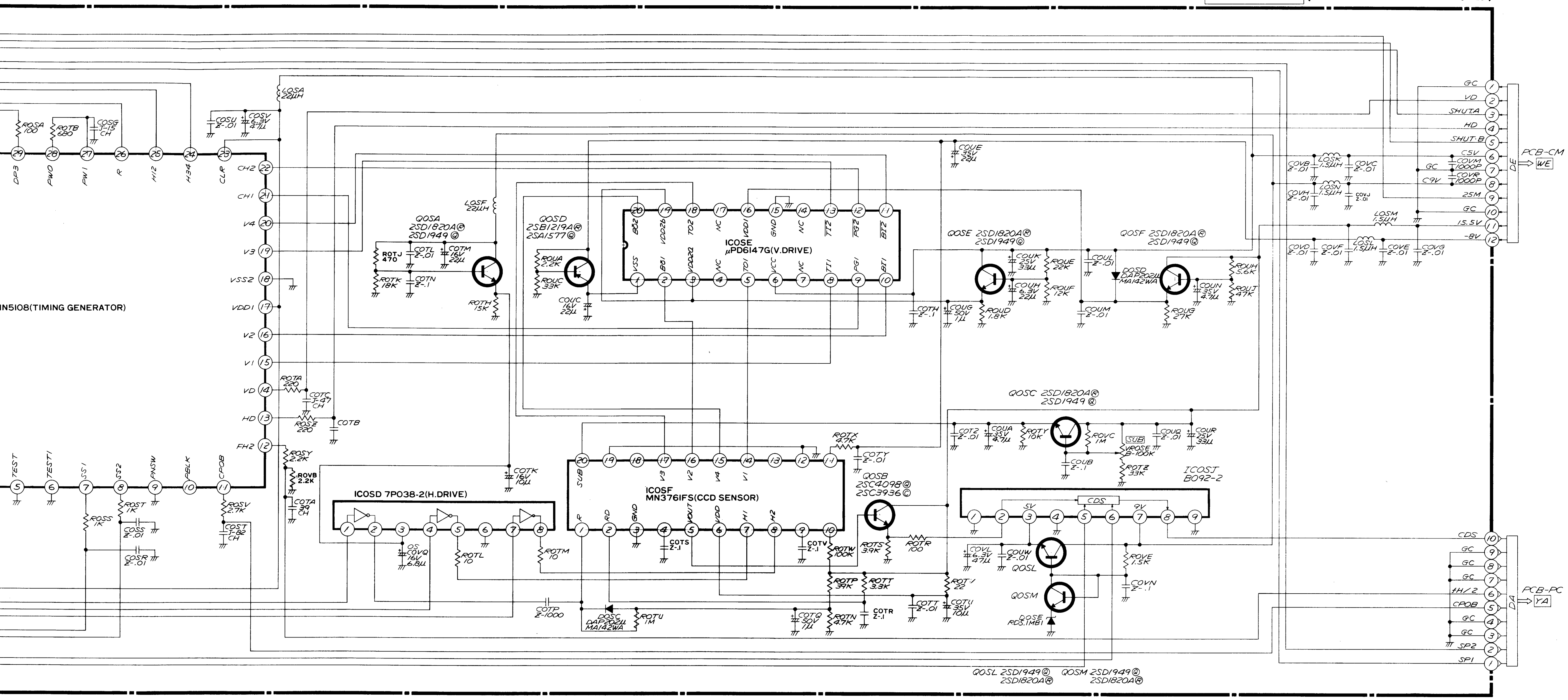

7
8
9
10
11
ICOSA MN5108(TIMING GENERATOR)
QOSA 2SD1820A(R) 2SD1949(Q)
QOSD 2SB1219A(R) 2SA1577(Q)
ICOSD 7P038-2(H.DRIVE)
ICOSF MN3761FS(CCD
XOSA 25MHz
DOSC DAP202U MA142WA

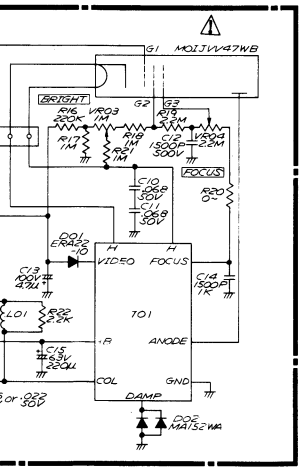

EVF UNIT
AN2512S
Q01 2SA1163(BL)
Q02 2SD1898(R)
T01
M01JVV47WB
BRIGHT
FOCUS
LT01
L03 V.DY
P01

WAVEFORMS ICOSF


①PIN RESET RULSE(R)
DC 1.6V
79ns typ
⑮PIN VIDEO OUT(VO)
78ns TYP
⑭PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V1)
13V
1V
-7V
H
V BLANKING
(RANGE 5V 100μ sec) SHUTTER NORMAL
⑯PIN VERTICAL SHIFT REG
H
V BLANKING
B
C
D
A
B : 1/250 SHUTTER
C : 1/500 SHUTTER
D : 1/1000 SHUTTER
HIGH SPEED TRANSMISSION PULSE
(RANGE 5V 100μ sec) SHUTTER 1/1000
HIGH SPEED TRANSMISSION PUL

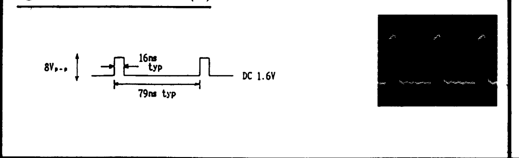
⚠ PCB-SD (SENSOR DRIVE)


IN5108(TIMING GENERATOR)
ICOSE μPD6147G(V.DRIVE)
ICOSF MN3761FS(CCD SENSOR)
ICOSD 7P038-2(H.DRIVE)
ICOSJ B092-2
QOSA 2SD1820A® 2SD1949©
QOSD 2SB1219A® 2SA1577©
QOSE 2SD1820A® 2SD1949©
QOSF 2SD1820A® 2SD1949©
QOSC 2SD1820A® 2SD1949©
QOSB 2SC4098© 2SC3936©
QOSL 2SD1949© 2SD1820A®
QOSM 2SD1949© 2SD1820A®
DOSD DAP202U MA142WA
DOSC DAP202U MA142WA
DOSE RD5.1MB1
PCB-CM WE
PCB-PC YA
DE
DA
GC
VD
SHUTA
HD
SHUT-B
C5V
C9V
2SM
15.5V
-8V
CDS
fH/2
CPOB
SP2
SP1
CH2
CH1
V4
V3
VSS2
VDD1
V2
V1
FH2
TEST
TEST1
SS1
SS2
PNSW
PBLK
DP3
PWO
PW1
R
H12
H34
CLP
SUB
RD
GND
VOUT
VDD
H1
H2
BI2
VDD2B
TO2
NC
VDD1
TI2
PG2
BI1
VSS
BO1
VDD2A
TO1
VCC
TI1
PG1

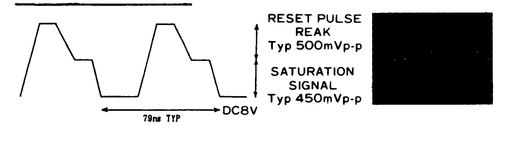

⚠
G1 MO1JVV47WB
BRIGHT
FOCUS
VIDEO
FOCUS
TO1
ANODE
COL
GND
DAMP
DO2 MA152WA
DO1 ERA22-10

WAVEFORMS ICOSF

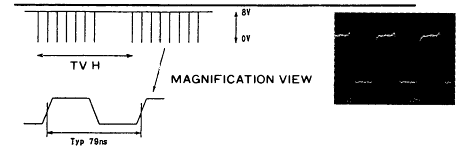
①PIN RESET RULSE(R)



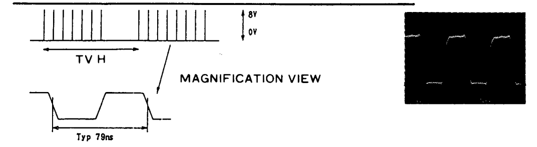
⑤PIN VIDEO OUT(VO)



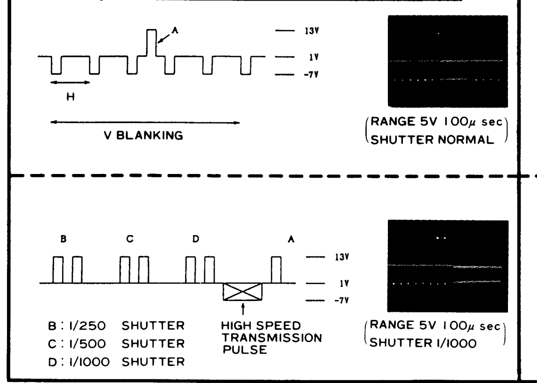
⑦PIN HORIZONTAL REGISTER CLOCK PULSE(H1)



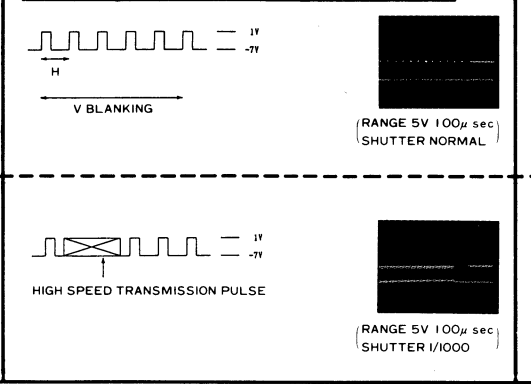
⑧PIN HORIZONTAL REGISTER CLOCK PULSE(H2)



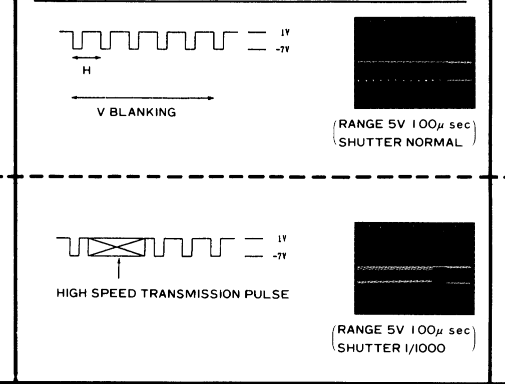
⑭PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V1)



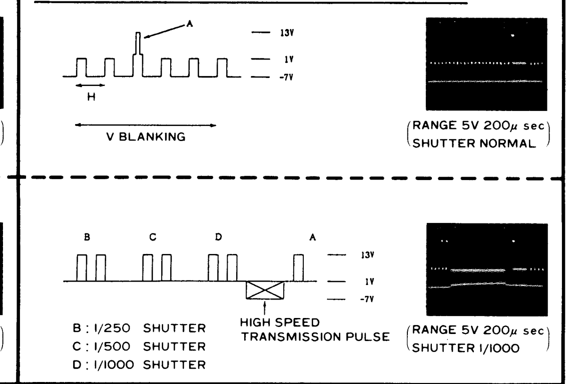
⑮PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V4)

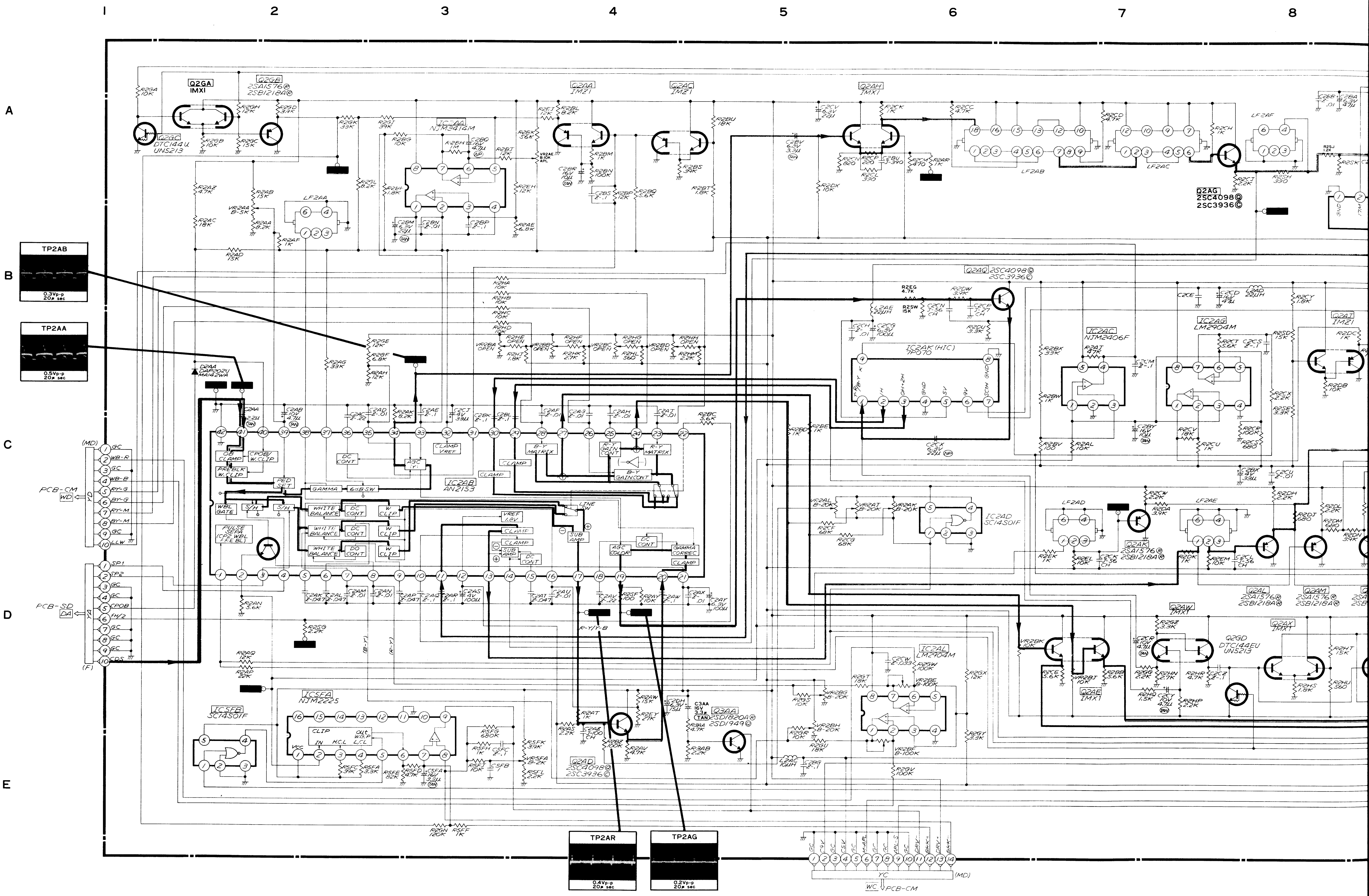


⑯PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V2)



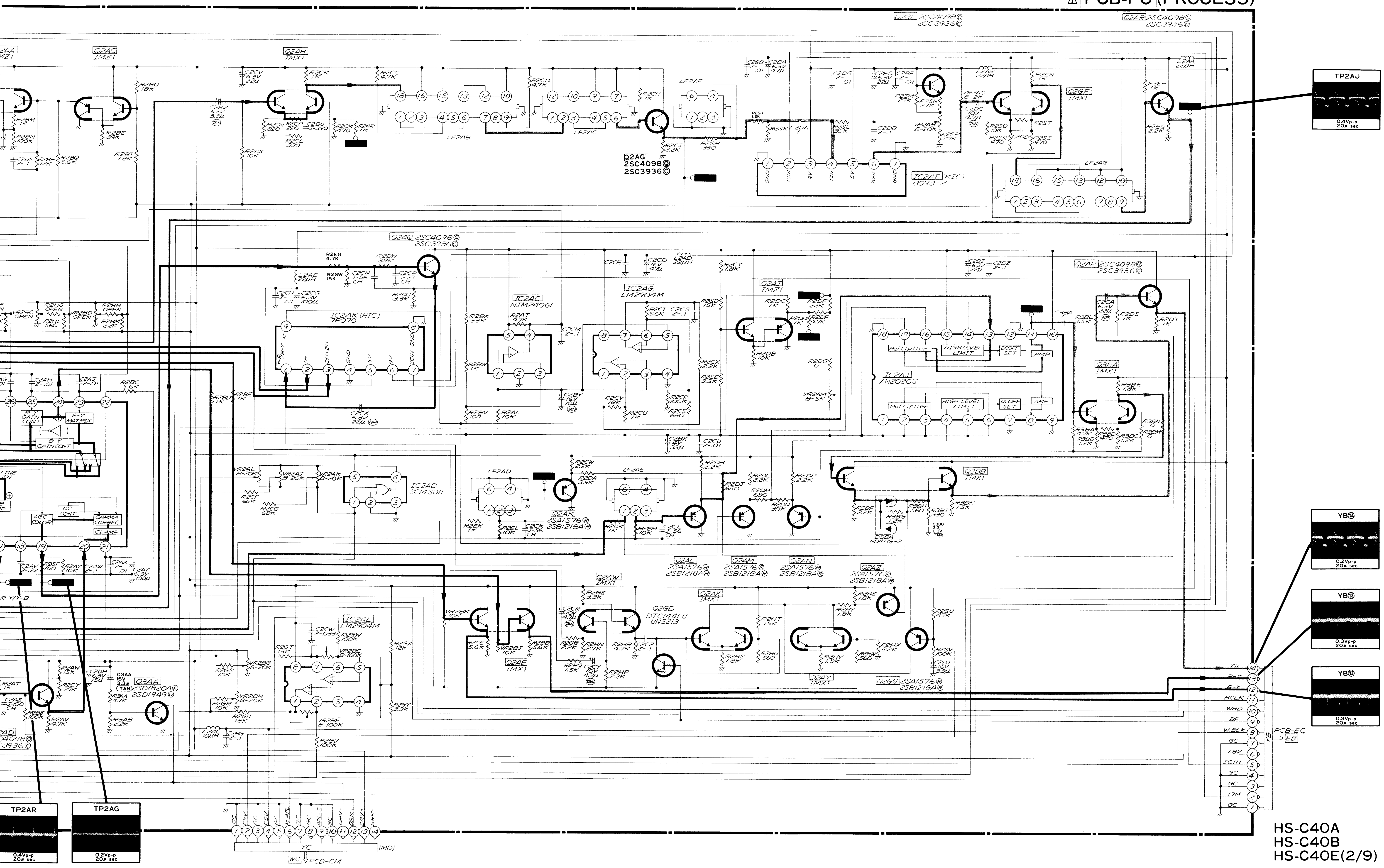
⑰PIN VERTICAL SHIFT REGISTER CLOCK PULSE(V3)



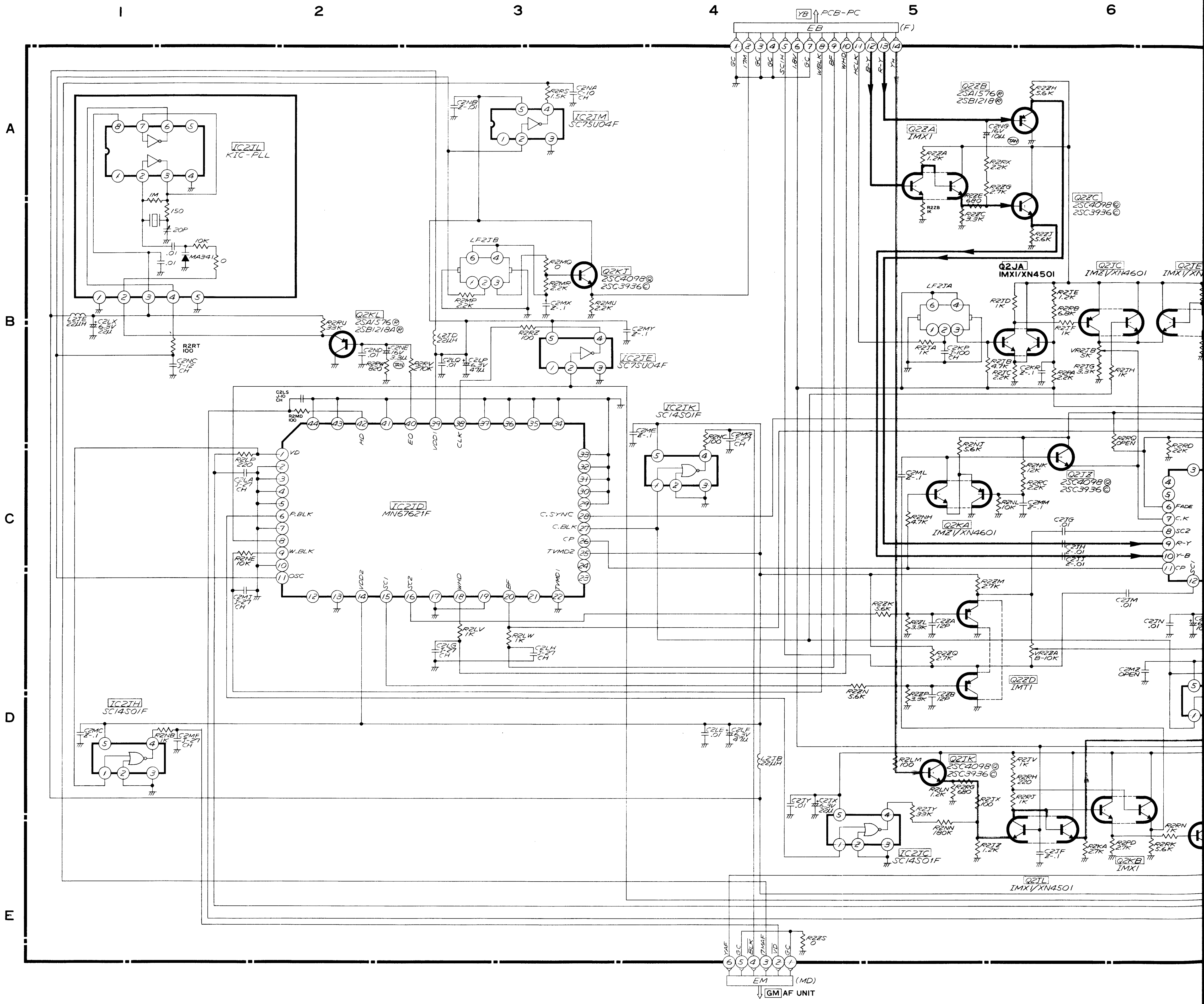

1
2
3
4
5
6
7
8
A
B
C
D
E
Q2GA IMX1
Q2GB 2SA1576®
2SB1218A®
Q2GC DTC144U
UN5213
R2GA 10K
R2GH 12K
R2GD 3.3K
R2GB 10K
R2GC 15K
R2GK 33K
R2GJ 39K
R2BG 10K
IC2AA NJM3414M
R2EH 1M
C2BQ 16V 4.7μ NP
R2BI 12K
R2EK 56K
VR2AE B-10K APL
R2ET 12K
R2BL 8.2K
Q2AA IMZ1
Q2AC IMZ1
R2BU 18K
R2BM 1K
R2BN 100K
C2BR 16V 10μ TAN
R2BS 39K
C2BS Z-.1
R2BP 12K
R2BQ 5.6K
R2BT 1.8K
Q2AH IMX1
C2CV 6.3V 22μ
C2BV 6.3V 3.3μ TAN
R2CK 1K
R2CN 820
R2CP 82
C2BU Z-.390
R2CL 330
R2CV 470
R2AR 1K
R2DX 10K
R2CC 4.7K
R2CD 4.7K
LF2AB
LF2AC
LF2AF
R2CH 1K
Q2AG 2SC4098® 2SC3936©
R2CJ 2.2K
R2SH 330
R2SJ 1.2K
R2SK
C2BB Z-.01
C2AA 6.3V 47μ
R2AZ 4.7K
R2AB 15K
VR2AA B-5K
R2AA 8.2K
R2AC 18K
R2AF 1K
R2AD 15K
LF2AA
R2GL 8.2K
R2EI 1.8K
C2BM 6.3V 22μ TAN
C2BN Z-.01
C2BP Z-.1
R2EH 12K
R2AE 6.8K
TP2AB
0.3Vp-p 20μ sec
TP2AA
0.5Vp-p 20μ sec
R2HA 10K
R2HB 10K
R2HC 10K
R2HD 10K
R2GE 12K
R2GF 6.8K
R2AH 12K
R2AG 33K
VR2BA OPEN
R2HE OPEN
VR2BB OPEN
R2HF OPEN
VR2BC OPEN
R2HG OPEN
VR2BD OPEN
R2HH OPEN
R2HJ 1.8K
R2HK 2.7K
R2HL 560
R2HM 2.2K
D2AA DAP202U MA142WA
C2AA 2.2μ TAN
C2AB 10V 4.7μ TAN
C2AC Z-.22
C2AD Z-.01
R2AK 8.2K
C2AE Z-.1
C2CJ 4V 33μ
C2BK Z-.1
C2BL Z-.1
C2AF Z-.01
C2AG Z-.01
C2AH Z-.01
C2AT Z-.01
R2BC 5.6K
OB CLAMP
CPOB/ W.CLIP
PREBLK W.CLIP
PED SET
GAMMA
6dB SW
DC CONT
AGC Y
CLAMP VREF
IC2AB AN2153
CLAMP
B-Y MATRIX
R-Y GAIN CONT
R-Y MATRIX
B-Y GAINCONT
WBL GATE
S/H
WHITE BALANCE
DC CONT
W CLIP
PULSE SEPA (CP2 WBL FF BL)
VREF 1.8V
LINE SW
SUB AMP
AGC COLOR
GAMMA CORREC
(MD)
GC
WB-R
WB-B
RY-G
BY-G
RY-M
BY-M
LLW
PCB-CM WD
YD
PCB-SD DA
YA
SP1
SP2
CPOB
fH/2
CDS
(F)
C2AK Z-.047
C2AL Z-.047
C2AM Z-.01
C2AN Z-.01
C2AP Z-.047
C2AG Z-.1
C2AR Z-.1
C2AS 4V 100μ
C2AT Z-.047
C2AU Z-.01
C2AV Z-.22
R2SF 100
R2AY 10K
C2AW Z-.1
C2AX .01
C2AY 6.3V 100μ
R2AN 5.6K
R2SG 2.2K
R-Y/Y-B
(B-Y)
(R-Y)
R2AQ 12K
R2AP 22K
IC5FB SC14S01F
IC5FA NJM2225
CLIP
OUT W.G.P
IN H.CL L.CL
VCC
R5FG 680K
R5FH 1K
C5FC Z-.1
R5FC 91K
R5FA 3.3K
R5FE 82K
R5FD 4.7K
C5FA 16V 3.3μ TAN
R5FJ 10K
C5FB
R5FK 3.9K
VR5FA B-2K
R5FL 2.2K
R2GN 120K
R5FF 1K
R2AT 1K
R2AS 2.2K
C2AZ J-100 CH
R2AW 15K
R2EY 2.7K
C2DH 6.3V 15μ
R2BZ 100K
R2AV 4.7K
Q2AD 2SC4098® 2SC3936©
C3AA 16V 3.3μ TAN
Q3AA 2SD1820A® 2SD1949©
R3AA 4.7K
R3AB 2.2K
TP2AR
0.4Vp-p 20μ sec
TP2AG
0.2Vp-p 20μ sec
Q2AQ 2SC4098® 2SC3936©
R2EG 4.7K
R2DW 3.9K
R2SW 15K
C2CN J-56 CH
C2CP J-27 CH
L2AE 22μH
C2CH Z-.01
C2CG 6.3V 100μ
R2DU 3.3K
IC2AK (HIC) 7P070
C2CX 6.3V 22μ NP
R2BD 1K
R2BE 1K
IC2AC NJM2406F
R2AJ 47K
C2CM Z-.1
C2CE
C2CD 16V 22μ
L2AD 22μH
IC2AG LM2904M
R2CT 5.6K
C2CS Z-.1
R2CY 1.8K
R2SD 15K
Q2AT IMZ1
R2DC 1K
R2DB 10K
R2BX 33K
R2BW 1K
R2BV 100
R2AL 10K
C2BY 16V 10μ TAN
R2CV 18K
R2CU 1K
R2CR 100K
R2CS 680
R2CX 2.2K
R2SE 3.3K
C2BX 4V 33μ
C2CU Z-.01
VR2AL B-20K
VR2AJ B-20K
VR2AK B-20K
R2CF 68K
R2CG 68K
IC2AD SC14S01F
LF2AD
R2CW 2.2K
R2DA 3.9K
LF2AE
R2DH 2.2K
R2DL 2.2K
R2DJ 680
R2DM 680
R2 3.9K
R2EK 1K
R2EL 10K
C2CK J-56 CH
Q2AK 2SA1576® 2SB1218A®
R2DK 1K
R2EM 10K
C2CL J-56 CH
Q2AL 2SA1576® 2SB1218A®
Q2AM 2SA1576® 2SB1218A®
Q2AW IMX1
R2GZ 3.3K
Q2GD DTC144EU UN5213
Q2AX IMX1
VR2BK 10K
C2CR 10V 4.7μ TAN
R2CE 5.6K
VR2BJ 10K
R2BB 5.6K
Q2AE IMX1
R2GG 2.2K
R2HN 2.7K
R2HR 4.7K
C2CZ Z-.1
R2HQ 1.5K
C2CY 10V 4.7μ TAN
R2HP 2.2K
R2HT 15K
R2HS 1.8K
R2HU 560
IC2AL LM2904M
C2CW Z-.033
R2GW 100K
VR2BE B-100K
R2GT 18K
VR2BG B-20K
R2GS 10K
R2GX 12K
R2GR 10K
VR2BH B-20K
R2GU 18K
VR2BF B-100K
R2GY 3.3K
L2AG 10μH
C2BG Z-.1
R2GV 100K
YC
(MD)
WC PCB-CM
GC
SV
APL
BLK
DRV

4 5 6 7 8 9 10 11

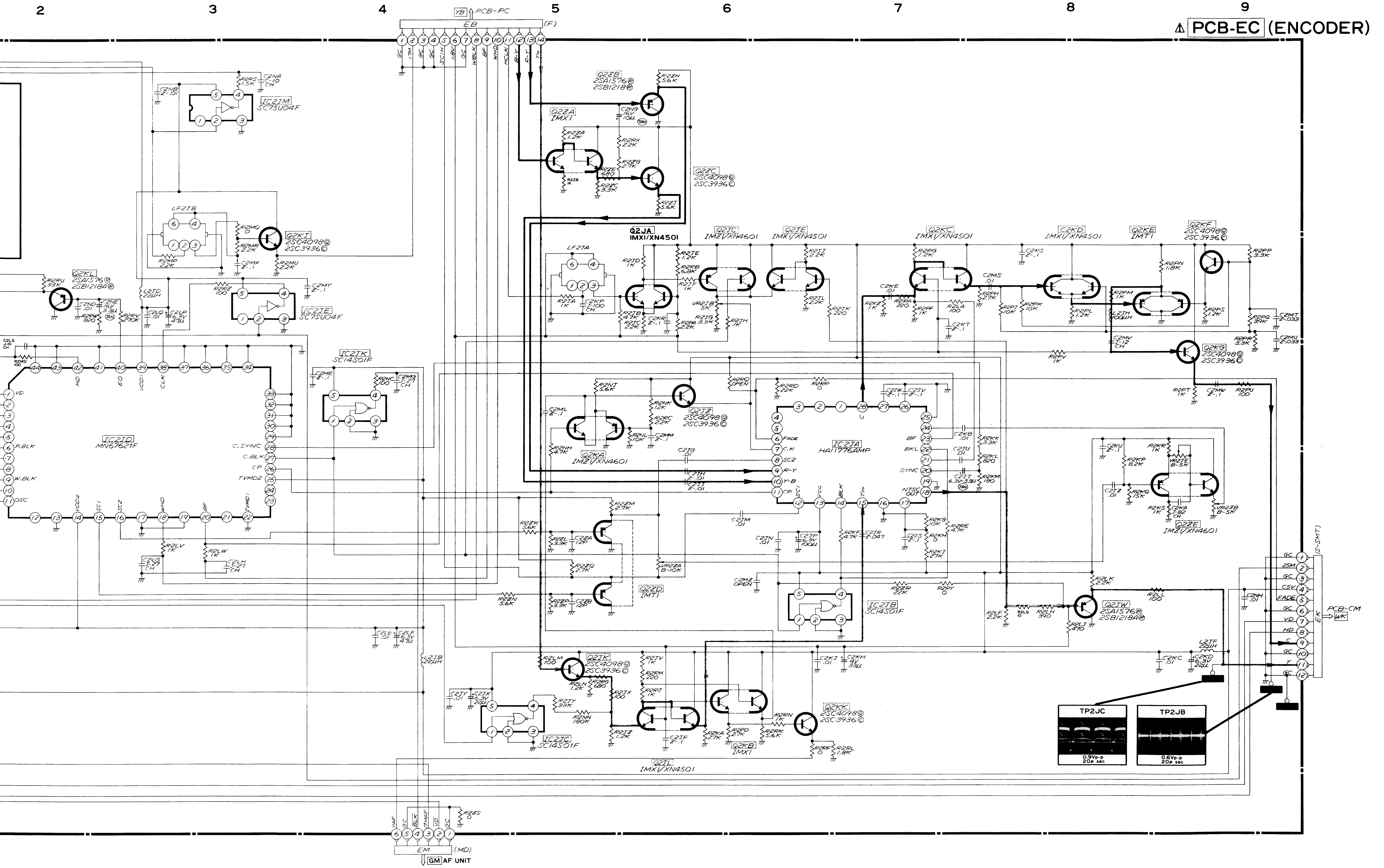
⚠ PCB-PC (PROCESS)

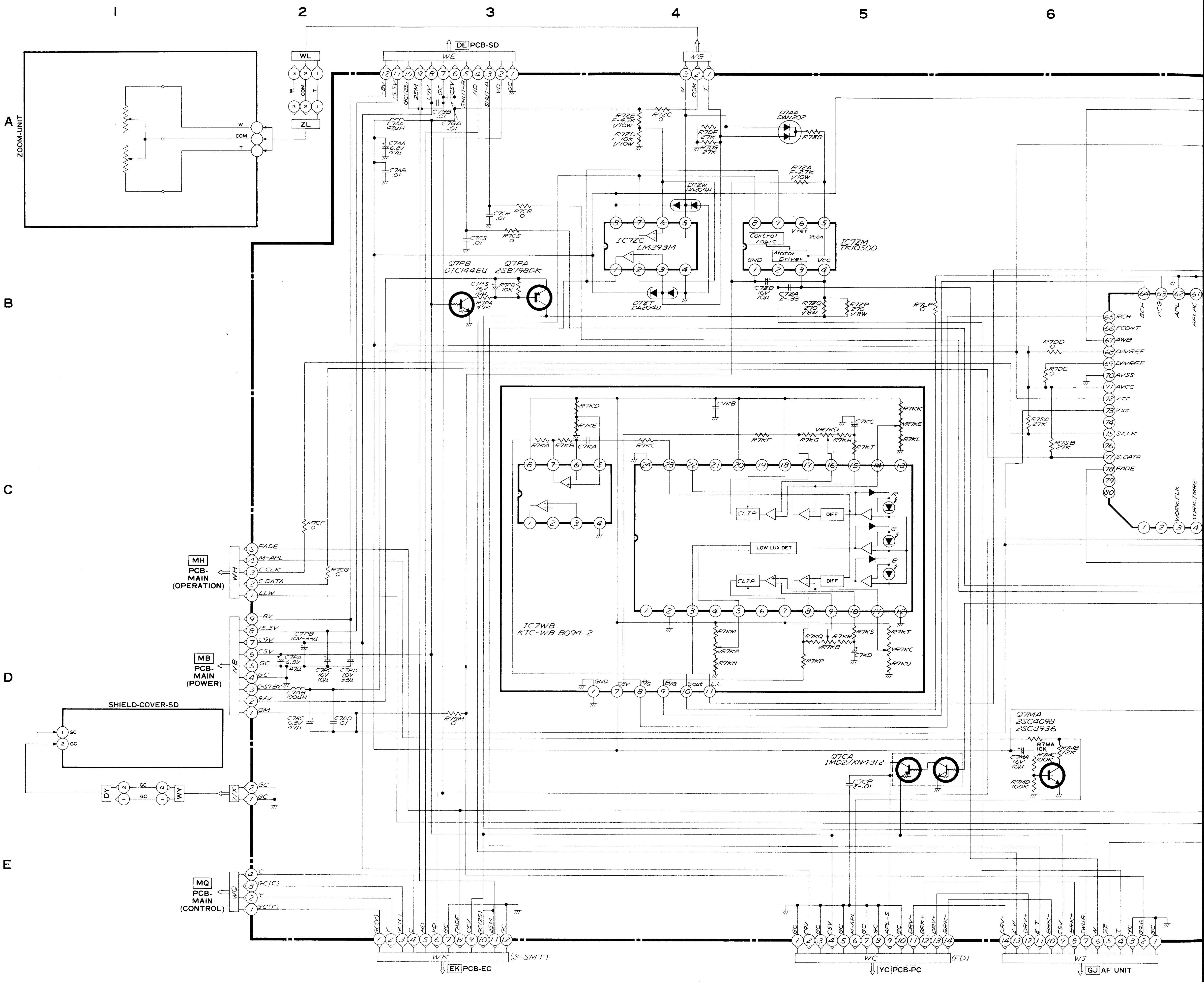

TP2AJ
0.4Vp-p 20μ sec
YB⑭
0.2Vp-p 20μ sec
YB⑬
0.3Vp-p 20μ sec
YB⑫
0.3Vp-p 20μ sec
TP2AR
0.4Vp-p 20μ sec
TP2AG
0.2Vp-p 20μ sec
Q2AG IMZ1
Q2AH IMX1
Q2AG 2SC4098Ⓠ 2SC3936Ⓒ
Q2AE 2SC4098Ⓠ 2SC3936Ⓒ
Q2AR 2SC4098Ⓠ 2SC3936Ⓒ
Q2GF IMX1
LF2AB
LF2AC
LF2AF
LF2AG
IC2AF (KIC) B093-2
Q2AQ 2SC4098Ⓠ 2SC3936Ⓒ
IC2AK (HIC) 7P070
IC2AC NJM2406F
IC2AG LM2904M
Q2AT IMZ1
Q2AP 2SC4098Ⓠ 2SC3936Ⓒ
IC2AJ AN2020S
Multiplier
HIGH LEVEL LIMIT
DCOFF SET
AMP
Q3BA IMX1
Q3BB IMX1
D3BA MD411G-2
IC2AD SC14S01F
LF2AD
LF2AE
Q2AK 2SA1576Ⓡ 2SB1218AⓇ
Q2AL 2SA1576Ⓡ 2SB1218AⓇ
Q2AM 2SA1576Ⓡ 2SB1218AⓇ
Q2AN 2SA1576Ⓡ 2SB1218AⓇ
Q2AZ 2SA1576Ⓡ 2SB1218AⓇ
Q2AW IMX1
Q2GD DTC144EU UN5213
Q2AX IMX1
Q2AY IMX1
Q2GG 2SA1576Ⓡ 2SB1218AⓇ
Q2AE IMX1
IC2AL LM2904M
Q3AA 2SD1820AⓇ 2SD1949Ⓒ
R-Y GAIN CONT
R-Y MATRIX
B-Y GAINCONT
AGC COLOR
DC CONT
GAMMA CORREC
CLAMP
R-Y/Y-B
YH
R-Y
B-Y
HCLK
WHD
BF
W.BLK
GC
1.8V
SC1H
17M
PCB-EC EB
YB
GC C9V GC C5V GC M-APL GC GC APL-S GC DRV DRV-1 BKK
YC
WC PCB-CM
(MD)

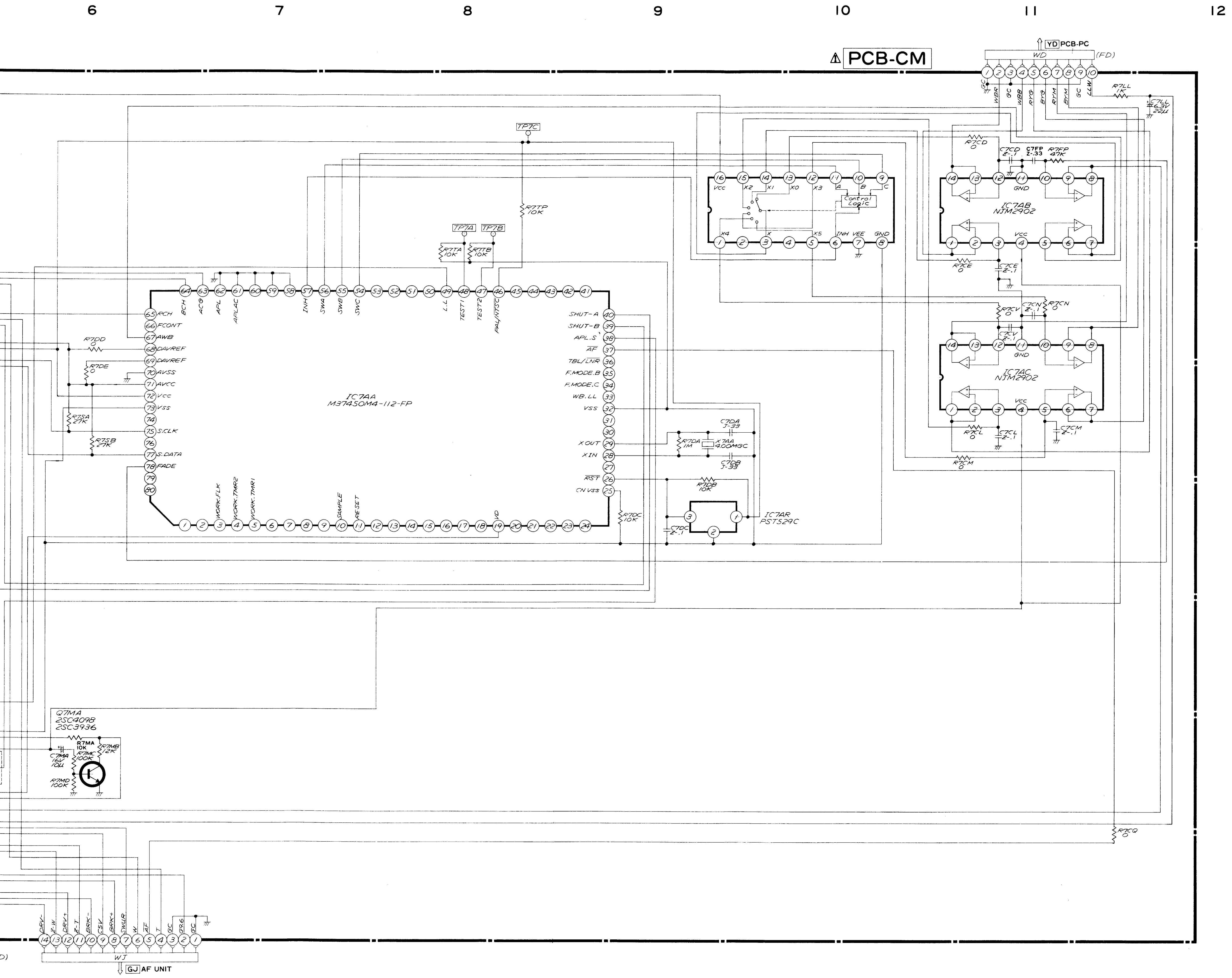
HS-C40A
HS-C40B
HS-C40E(2/9)

1
2
3
4
5
6
A
B
C
D
E
YB PCB-PC
EB (F)
GC
YM
GC
GC
SCIH
YBL
GC
WBLK
BF
WHD
HCLK
B-Y
R-Y
Y+
IC2JL
KIC-PLL
1M
150
20P
10K
MA341
0
.01
.01
L2TE 22μH
C2LX 6.3V 22μ
R2RT 100
C2NC J-12 CH
Q2KL
2SA1576®
2SB1218A®
R2RU 33K
C2ND .01
R2RW 820
C2NE 16V 3.3μ
R2RV 270K
L2TD 22μH
C2LQ .01
C2LP 6.3V 47μ
C2NB Z-.01
R2RS 1.5K
C2NA C-10 CH
IC2JM
SC7SU04F
LF2JB
R2MQ 0
R2MR 2.2K
R2MP 2.2K
C2MX Z-.1
R2MU 2.2K
Q2KJ
2SC4098®
2SC3936©
C2MY Z-.1
R2RZ 100
IC2JE
SC7SU04F
C2LS J-10 CH
R2MD 100
IC2JD
MN67621F
VD
F.BLK
W.BLK
OSC
HD
EO
VDD1
CLK
C.SYNC
C.BLK
CP
TVMD2
VDD2
SC1
SC2
WHD
BF
TVMD1
R2LP 220
C2LA J-27 CH
R2NE 10K
C2MJ J-27 CH
R2LV 1K
R2LW 1K
C2LG J-27 CH
C2LH J-27 CH
IC2JK
SC14S01F
C2ME Z-.1
R2NC 100
C2MG J-27 CH
IC2JH
SC14S01F
C2MC Z-.1
R2NB 1K
C2MF J-27 CH
C2LE .01
C2LF 6.3V 47μ
L2TB 22μH
Q2ZB
2SA1576®
2SB1218®
R2ZH 5.6K
C2NG 16V 10μ
Q2ZA
IMX1
R2ZA 1.2K
R2ZB 1K
R2RX 2.2K
R2ZG 2.7K
R2ZE 680
R2ZC 3.3K
R2ZJ 5.6K
Q2ZC
2SC4098®
2SC3936©
Q2JA
IMX1/XN4501
Q2JC
IM21/XN4601
Q2JE
IMX1/XN
LF2JA
R2JD 1K
R2JE 1.2K
R2RB 6.8K
R2JF 1K
R2JA 1K
C2KP J-100 CH
R2JB 4.7K
R2JC 2.2K
C2KR Z-.1
R2RA 2.2K
VR2JB 5K
R2JG 3.3K
R2JH 1K
R2RQ OPEN
R2RD 22K
R2NJ 5.6K
Q2JZ
2SC4098®
2SC3936©
C2ML Z-.1
R2NK 12K
R2RC 2.2K
R2NL 10K
C2MM Z-.1
R2NH 4.7K
Q2KA
IM21/XN4601
FADE
C.K
SC2
R-Y
Y-B
CP
SC1
C2JG .01
C2JH Z-.01
C2JJ Z-.01
R2ZM 2.7K
R2ZK 5.6K
R2ZL 3.3K
C2ZA 12P
C2JM .01
C2JN .01
R2ZQ 2.7K
VR2ZA B-10K
C2MZ OPEN
R2ZN 5.6K
R2ZP 3.3K
C2ZB 12P
Q2ZD
IMT1
R2LM 100
Q2JK
2SC4098®
2SC3936©
R2LN 1.2K
R2RG 680
R2JV 1K
R2RH 220
R2RJ 1K
C2JY .01
C2JX 6.3V 22μ
R2JY 33K
R2JX 100
R2NN 180K
R2JZ 1.2K
C2JF Z-.1
R2KA 2.7K
R2PD 2.7K
R2RK 5.6K
R2RN 1K
Q2KB
IMX1
IC2JC
SC14S01F
Q2JL
IMX1/XN4501
YAF
GC
BLK
CMAF
VD
GC
R2ZS 0
EM (MD)
GM AF UNIT

⚠ PCB-EC (ENCODER)


2
3
4
5
6
7
8
9
YB PCB-PC
EB (F)
GC
17M
GC
GC
SC1H
1.8V
GC
WBLK
BF
WHD
HCLK
B-Y
R-Y
Y+
Q2ZB 2SA1576® 2SB1218®
Q2ZA IMX1
Q2ZC 2SC4098© 2SC3936©
IC2JM SC7SU04F
IC2JE SC7SU04F
LF2JB
LF2JA
Q2KJ 2SC4098© 2SC3936©
Q2KL 2SA1576® 2SB1218®
Q2JA IMX1/XN4501
Q2JC IMZ1/XN4601
Q2JE IMX1/XN4501
Q2KC IMX1/XN4501
C2KD IMX1/XN4501
Q2KE IMT1
Q2KF 2SC4098© 2SC3936©
Q2KG 2SC4098© 2SC3936©
IC2JK SC14S01F
IC2JD MN67621F
Q2JZ 2SC4098© 2SC3936©
Q2KA IMZ1/XN4601
IC2JA HA11776AMP
Q2ZE IMZ1/XN4601
Q2ZD IMT1
IC2JB SC14S01F
Q2JW 2SA1576® 2SB1218A®
Q2JK 2SC4098© 2SC3936©
IC2JC SC14S01F
Q2KK 2SC4098© 2SC3936©
Q2KB IMX1
Q2JL IMX1/XN4501
VD
P.BLK
W.BLK
OSC
HD
EO
VDD1
CLK
C.SYNC
C.BLK
CP
TVMD2
VDD2
SC1
SC2
WHD
BF
VMD1
FADE
C.K
SC2
R-Y
Y-B
CP
BF
BKL
SYNC
NTSC OUT
VCC
BLK
YIN
EK (S-SMT)
GC
2SM
GC
CSV
FADE
GC
VD
HD
C
GC
Y
GC
PCB-CM WK
TP2JC
0.9Vp-p 20μ sec
TP2JB
0.6Vp-p 20μ sec
YAF
GC
BLK
TMAF
VD
GC
EM (MD)
GM AF UNIT


1
2
3
4
5
6
A
B
C
D
E
ZOOM-UNIT
W
COM
T
WL
ZL
DE PCB-SD
WE
WG
C7AA 47μH
C7AA 6.3V 47μ
C7AB .01
C7AB .01
C7GA .01
R7ZE F-4.7K 1/10W
R7ZC 0
R7ZD F-10K 1/10W
R7DF 27K
R7DG 27K
D7AA DAN202
R7ZB
R7ZA F-27K 1/10W
D7ZW DA204U
D7ZT DA204U
IC7ZC LM393M
IC7ZM TK10500
Control Logic
Motor Driver
Vref
Vcon
GND
Vcc
C7ZB 16V 10μ
C7ZA Z-.33
R7ZQ 270 1/8W
R7ZP 270 1/8W
R7LP 0
C7CR .01
R7CR 0
C7CS .01
R7CS 0
Q7PB DTC144EU
Q7PA 2SB798DK
C7PS 16V 10μ
R7PB 10K
R7PA 4.7K
R7DD 0
R7DE 0
R7SA 27K
R7SB 27K
65 RCH
66 FCONT
67 AWB
68 DAVREF
69 DAVREF
70 AVSS
71 AVCC
72 Vcc
73 VSS
74
75 S.CLK
76
77 S.DATA
78 FADE
79
80
64 BCH
63 ACG
62 APL
61 APLAC
WORK.FLK
WORK.TMR2
R7CF 0
R7CG 0
MH PCB-MAIN (OPERATION)
WH
FADE
M-APL
C.CLK
C.DATA
LLW
MB PCB-MAIN (POWER)
WB
-8V
15.5V
C9V
C5V
GC
GC
C.STBY
9.6V
GM
C7PB 10V 33μ
C7PA 6.3V 47μ
C7PC 16V 10μ
C7PD 10V 33μ
C7AB 100μH
C7AC 6.3V 47μ
C7AD .01
R7GM 0
SHIELD-COVER-SD
GC
DY
WY
WX
IC7WB KIC-WB B094-2
R7KD
R7KE
R7KA
R7KB
C7KA
R7KC
C7KB
R7KF
R7KG
VR7KD
R7KH
C7KC
R7KJ
R7KK
VR7KE
R7KL
CLIP
DIFF
LOW LUX DET
R
G
B
R7KM
VR7KA
R7KN
R7KQ
VR7KB
R7KR
R7KS
R7KP
C7KD
R7KT
VR7KC
R7KU
GND
CSV
R/G
B/G
Gout
Q7MA 2SC4098 2SC3936
C7MA 16V 10μ
R7MA 10K
R7MB 12K
R7MC 100K
R7MD 100K
Q7CA IMD2/XN4312
C7CP Z-.01
MQ PCB-MAIN (CONTROL)
WQ
C
GC(C)
Y
GC(Y)
WK
(S-SMT)
EK PCB-EC
WC
(FD)
YC PCB-PC
WJ
GJ AF UNIT
M-APL
APL-S
DRV-
BRK+
DRV+
BRK-
Z-W
Z-T
SWLR
9.6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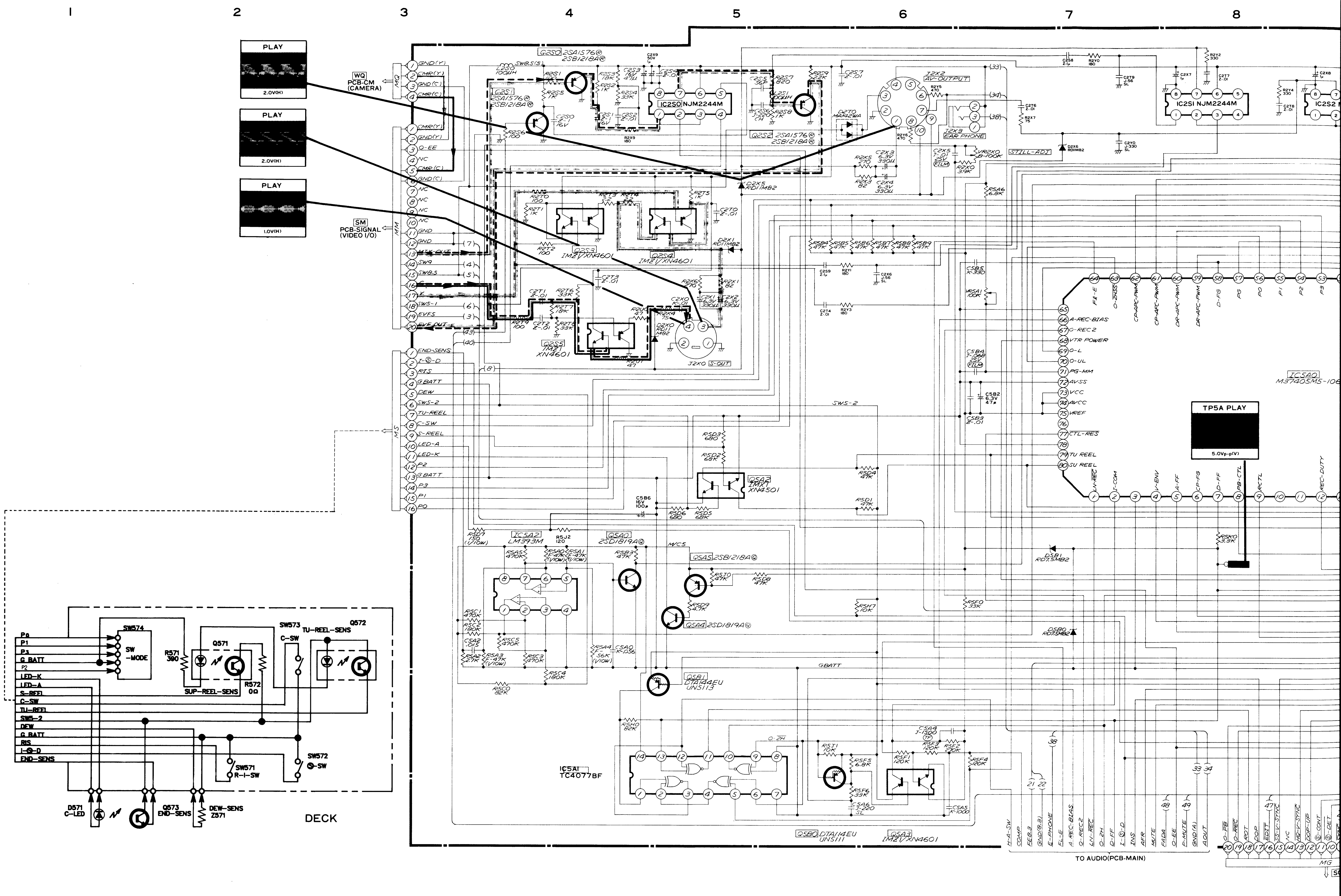
12
⚠ PCB-CM
YD PCB-PC
WD
(FD)
GC
WBR
GC
WBB
RYG
BYG
RYM
BYM
GC
LLW
R7LL 1K
C7LL 6.3V 22μ
TP7C
R7TP 10K
TP7A
TP7B
R7TA 10K
R7TB 10K
Vcc
X2
X1
X0
X3
A
B
C
Control Logic
X4
X
X5
INH
VEE
GND
R7CD 0
C7CD Z.1
C7FP Z.33
R7FP 47K
IC7AB
NJM2902
R7CE 0
C7CE Z.1
R7CV 0
C7CN Z.1
R7CN 0
C7CV Z.1
IC7AC
NJM2902
R7CL 0
C7CL Z.1
C7CM Z.1
R7CM 0
BCH
ACG
APL
APLAC
INH
SWA
SWB
SWC
L.L
TEST1
TEST2
PAL/NTSC
RCH
FCONT
AWB
DAVREF
DAVREF
AVSS
AVCC
Vcc
VSS
S.CLK
S.DATA
FADE
R7DD 0
R7DE 0
R7SA 27K
R7SB 27K
IC7AA
M37450M4-112-FP
SHUT-A
SHUT-B
APL.S
AF
TBL/LNR
F.MODE.B
F.MODE.C
WB.LL
VSS
XOUT
XIN
RST
CNVSS
WORK.FLK
WORK.TMR2
WORK.TMR1
SAMPLE
RESET
VD
C7DA J.33
R7DA 1M
X7AA 4.00MGC
C7DB J.33
R7DB 10K
R7DC 10K
IC7AR
PST529C
C7DC Z.1
Q7MA
2SC4098
2SC3936
R7MA 10K
R7MB 12K
R7MC 100K
C7MA 16V 10μ
R7MD 100K
R7CQ 0
DRV-
Z.W
DRV+
Z.T
BRK-
C5V
BRK+
SWUR
W
AF
T
GC
GZ6
GC
WJ
GJ AF UNIT

HS-C40A
HS-C40B
HS-C40E(3/9)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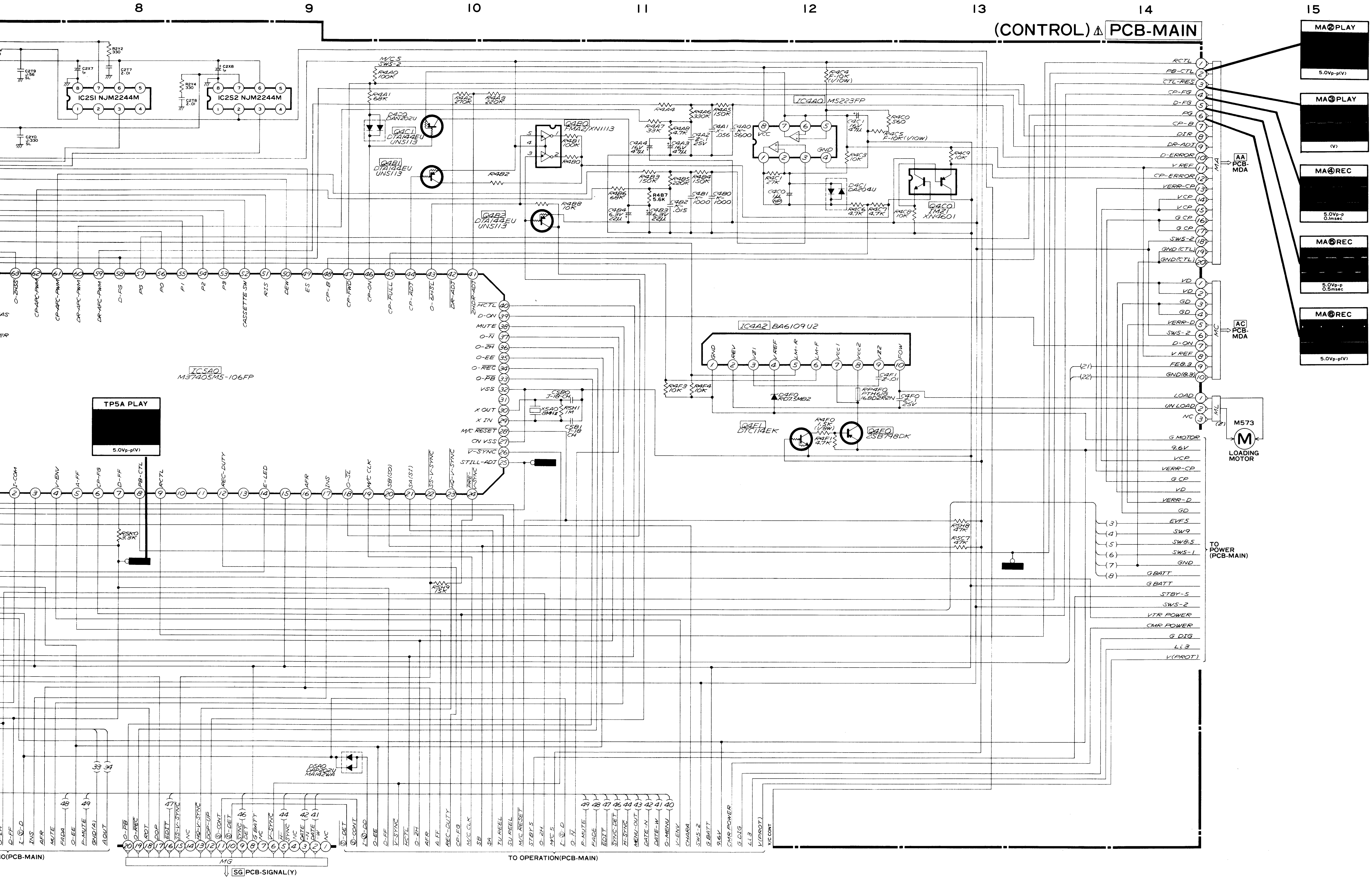
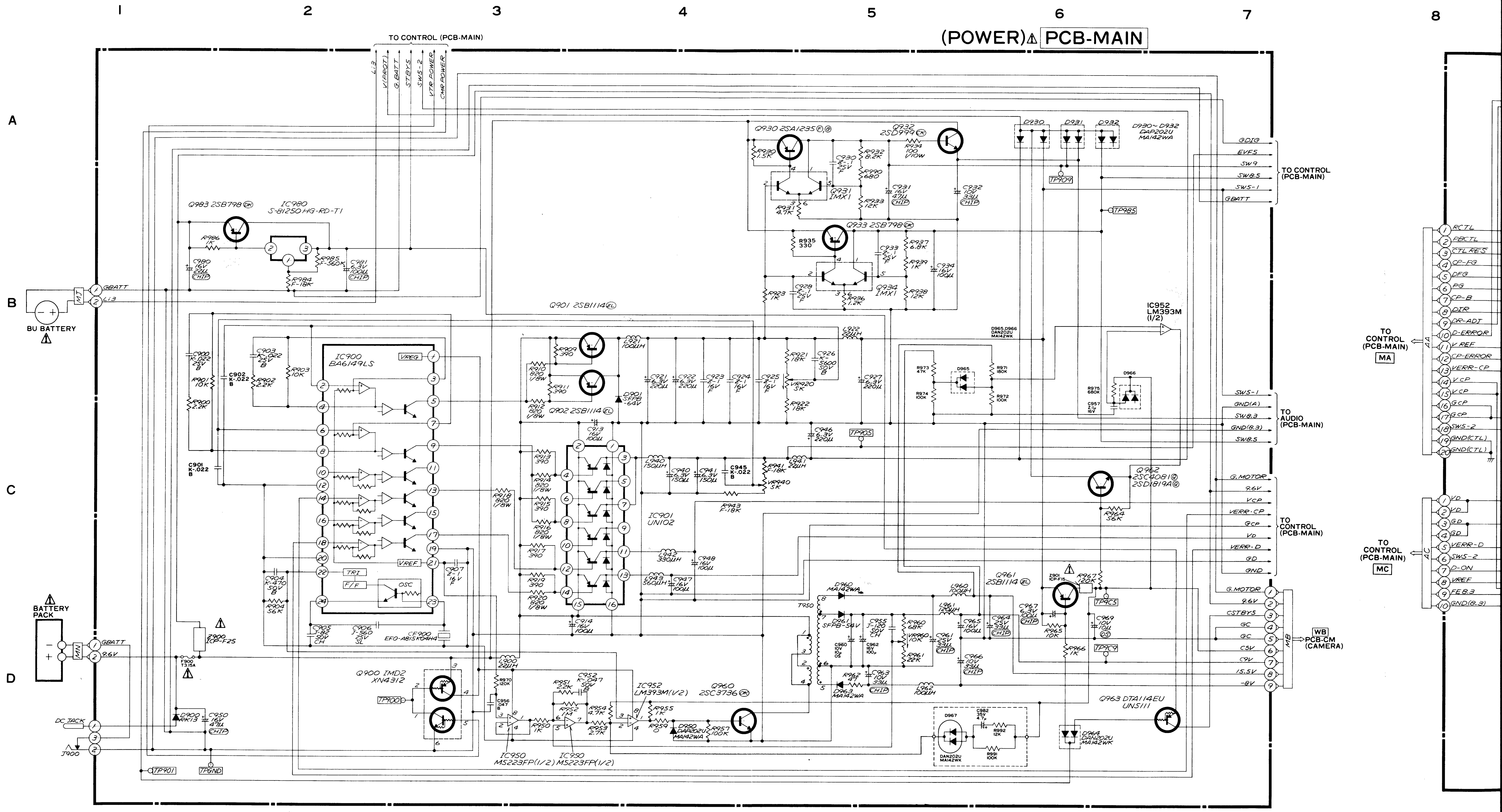
5
6
7
8
A
B
C
D
E
PLAY
2.0V(H)
PLAY
2.0V(H)
PLAY
1.0V(H)
WQ
PCB-CM
(CAMERA)
SM
PCB-SIGNAL
(VIDEO I/O)
MQ
MM
MS
GND(Y)
CMR(Y)
GND(C)
CMR(C)
O-EE
NC
GND
MIX-OUT
SW9
SW8.5
SWS-1
EVFS
EVF OUT
END-SENS
I-⊖-D
RIS
G BATT
DEW
SWS-2
TU-REEL
C-SW
S-REEL
LED-A
LED-K
P2
P3
P1
P0
Q2S0 2SA1576Ⓡ 2SB1218AⓇ
Q2S1 2SA1576Ⓡ 2SB1218AⓇ
Q2S2 2SA1576Ⓡ 2SB1218AⓇ
IC2S0 NJM2244M
IC2S1 NJM2244M
IC2S2
Q2S3 IMZ1/XN4601
Q2S4 IMZ1/XN4601
Q2S5 IMZ1 XN4601
J2X2 AV-OUTPUT
J2X3 EAR PHONE
J2X0 S-OUT
STILL-ADJ
D2T0 MA142WA
D2X5 RD11MB2
D2X6 RD11MB2
D2X1 RD11MB2
D2X0 RD11MB2
L2S0 100μH
L2S1 10μH
IC5A0 M37405M5-10
TP5A PLAY
5.0Vp-p(V)
FR-E
O-ZHSS
CP-APC-PWM
CP-AFC-PWM
DR-APC-PWM
DR-AFC-PWM
D-FG
PG
P0
P1
P2
P3
A-REC-BIAS
G-REC2
VTR POWER
O-L
O-UL
PG-MM
AVSS
VCC
AVCC
VREF
CTL-RES
TU REEL
SU REEL
LN-REC
I-COM
V-ENV
A-FF
CP-FG
D-FF
PB-CTL
RCTL
REC-DUTY
IC5A2 LM393M
Q5A0 2SD1819AⓆ
Q5A5 2SB1218AⓆ
Q5A4 2SD1819AⓆ
Q5A2 IMX1 XN4501
Q5B1 DTA144EU UN5113
Q5B0 DTA114EU UN5111
Q5A3 IMZ1/XN4601
IC5A1 TC4077BF
D5B1 RD7.5MB2
D5B0 RD7.5MB2
GBATT
M/C5
O-2H
TO AUDIO(PCB-MAIN)
H-A-SW
COMP
FE9.3
GND(9.3)
E-PHONE
FL-E
A-REC-BIAS
O-REC2
LN-REC
O-2H
D-FF
I-⊖-D
INS
AFR
MUTE
FADA
O-EE
P-MUTE
GND(A)
AOUT
O-PB
O-REC
D-ROT
DOP
EDIT
SS-V-SYNC
NC
HD-V-SYNC
DOP-UP
⊖-CONT
⊖-DET
MG
P0
P1
P3
G BATT
P2
LED-K
LED-A
S-REEL
C-SW
TU-REEL
SWS-2
DEW
G BATT
RIS
I-⊖-D
END-SENS
SW574
SW -MODE
R571 390
Q571
SUP-REEL-SENS
R572 0Ω
SW573 C-SW
TU-REEL-SENS
Q572
SW571 R-I-SW
SW572 ⊖-SW
D571 C-LED
Q573 END-SENS
DEW-SENS Z571
DECK


8
9
10
11
12
13
14
15
(CONTROL) ⚠ PCB-MAIN
IC2S1 NJM2244M
IC2S2 NJM2244M
R2Y2 330
R2Y4 330
C2X7
C2X8
C2T7 Z.01
C2T8 Z.01
C2T9 J.56 SL
C2Y0 J.330 SL
M/C 5
SWS-2
R4A0 100K
R4A1 68K
D4A0 DAN202U
Q4C1 DTA144EU UN5113
Q4B1 DTA144EU UN5113
Q4B2 DTA144EU UN5113
R4A2 270K
R4A3 220K
Q4B0 FMA2/XN1113
R4B1 100K
R4B0
R4B2
R4B8 10K
R4A4
R4A6 330K
R4A5 150K
R4A7 33K
R4A8 4.7K
C4A4 16V 47μ
C4A3 16V 47μ
C4A2 Z.1 25V
C4A1 K.056
C4A0 K5600
R4B3 150K
R4B5 220K
R4B4 150K
R4B6 68K
R4B7 5.6K
C4B4 6.3V 22μ
C4B3 6.3V 22μ
C4B2 K.015
C4B1 K1000
C4B0 K1000
R4C4 F-10K (1/10W)
IC4A0 M5223FP
VCC
GND
C4C1 16V 47μ
R4C0 560
R4C5 F-10K (1/10W)
R4C3 10K
R4C1 27K
C4C0 1μ (NP)
D4C1 DA204U
R4C6 4.7K
R4C7 4.7K
R4C8 10K
R4C9 10K
Q4C0 IMZ1 XN4601
RCTL
PB-CTL
CTL-RES
CP-FG
D-FG
PG
CP-B
DIR
DR-ADJ
D-ERROR
V REF
CP-ERROR
VERR-CP
VCP
VCP
G CP
G CP
SWS-2
GND(CTL)
GND(CTL)
MA
AA PCB-MDA
VD
VD
GD
GD
VERR-D
SWS-2
D-ON
V REF
FE8.3
GND(8.3)
MC
AC PCB-MDA
(21)
(22)
LOAD
UN LOAD
NC
ML
(2)
M573
M
LOADING MOTOR
MA② PLAY
5.0Vp-p(V)
MA③ PLAY
(V)
MA④ REC
5.0Vp-p 0.1msec
MA⑤ REC
5.0Vp-p 0.5msec
MA⑥ REC
5.0Vp-p(V)
IC4A2 BA6109U2
GND
REV
VZ1
V REF
LM-R
LM-F
VCC1
VCC2
VZ2
FOW
R4F3 10K
R4F4 10K
D4F0 RD7.5MB2
RP4F0 PTH61G 16BD2R2N
C4F1 Z.01
C4F0 Z.1 25V
Q4F1 DTC114EK
R4F0 1.5K (1/8W)
R4F1 4.7K
Q4E0 2SB798DK
IC5A0 M37405M5-106FP
0-2HSS
CP-APC-PWM
CP-AFC-PWM
DR-APC-PWM
DR-AFC-PWM
D-FG
PG
PO
P1
P2
P3
CASSETTE SW
RIS
DEW
ES
CP-B
CP-FWD
CP-ON
CP-FULL
CP-ADJ
0-6HSL
DR-ADJ
2HDR-ADJ
RCTL
D-ON
MUTE
O-N
O-2H
O-EE
O-REC
O-PB
VSS
X OUT
X IN
M/C RESET
CN VSS
V-SYNC
STILL-ADJ
C5B0 J-18 CH
X5A0 8MHz
R5H1 1M
C5B1 J-18 CH
TP5A PLAY
5.0Vp-p(V)
I-COM
V-ENV
A-FF
CP-FG
D-FF
PB-CTL
RCTL
REC-DUTY
E-LED
AFR
INS
O-3L
M/C CLK
SB(SO)
SA(SI)
SS-V-SYNC
HQ-V-SYNC
PRE V-SYNC
R5K0 3.9K
R5H9 15K
R5H8 47K
R5C7 47K
G MOTOR
9.6V
VCP
VERR-CP
G CP
VD
VERR-D
GD
EVF5
SW9
SW8.5
SWS-1
GND
G BATT
G BATT
STBY-5
SWS-2
VTR POWER
CMR POWER
G DIG
Li 3
V(PROT)
(3)
(4)
(5)
(6)
(7)
(8)
TO POWER (PCB-MAIN)
D5A0 DAP202U MA142WA
33
34
48
49
47
46
44
42
41
O-FF
Z-S-D
INS
AFR
MUTE
FADA
O-EE
P-MUTE
GND(A)
AOUT
O-PB
O-REC
ROT
POP
EDIT
SS-V-SYNC
NC
HQ-V-SYNC
POP-UP
S-CONT
S-DET
G BATT
NC
V-SYNC
H-SYNC
NC
DATE-N
DATE-W
NC
MG
SG PCB-SIGNAL(Y)
IO(PCB-MAIN)
S-DET
S-CONT
L-S-DD
O-EE
O-FF
V-SYNC
HCTL
O-2H
AFR
A.FF
REC-DUTY
CP-FG
M/C CLK
SB
SA
TU REEL
SU REEL
M/C RESET
STBY 5
O-2H
M/C 5
L-S-D
O-N
P-MUTE
FACE
EDIT
SYNC DET
H-SYNC
MENU-OUT
DATE-N
DATE-W
O-MENU
V-ENV
CHARA
SWS-2
G BATT
9.6V
CMR POWER
G DIG
Li 3
V(PROT)
Y/C CONT
TO OPERATION(PCB-MAIN)
49 48 47 46 44 43 42 41 40

(POWER)⚠ PCB-MAIN

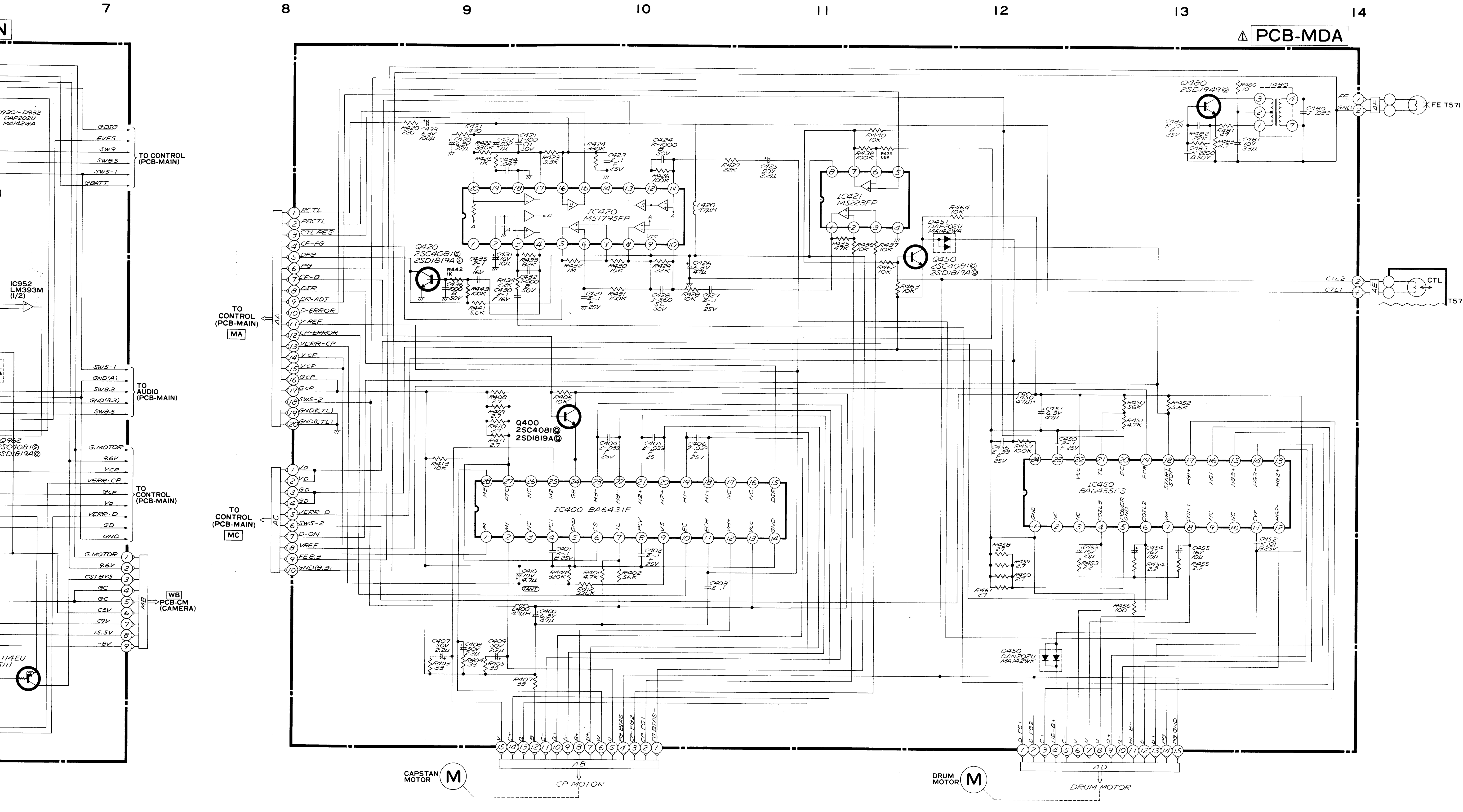

TO CONTROL (PCB-MAIN)
LI3
V(PROT)
G.BATT
STBYS
SWS-2
VTR POWER
CMR POWER
Q930 2SA1235
Q932 2SD999
D930
D931
D932
D930~D932 DAP202U MA142WA
Q983 2SB798
IC980 S-81250HG-RD-T1
Q933 2SB798
Q931 IMX1
Q934 IMX1
BU BATTERY
Q901 2SB1114
Q902 2SB1114
IC900 BA6149LS
VREG
VREF
TRI
F/F
OSC
IC901 UN102
IC952 LM393M (1/2)
D965,D966 DAN202U MA142WK
Q962 2SC4081 2SD1819A
BATTERY PACK
F900 T3.15A
Z900 ICP-F25
Q900 IMD2 XN4312
TP900
IC950 M5223FP(1/2)
IC952 LM393M(1/2)
Q960 2SC3736
D950 DAN202U MA142WA
T950
D960 MA142WA
D961 SFPB-54V
D963 MA142WA
Q961 2SB1114
Z901 ICP-F15
D967 DAN202U MA142WK
Q963 DTA114EU UN5111
D964 DAN202U MA142WK
DC JACK
J900
TP901
TPGND
TP909
TP985
TP905
TP9C5
TP9C9
G.DIG
EVFS
SW9
SW8.5
SWS-1
GBATT
TO CONTROL (PCB-MAIN)
GND(A)
SW8.3
GND(8.3)
TO AUDIO (PCB-MAIN)
G.MOTOR
9.6V
VCP
VERR-CP
GCP
VD
VERR-D
GD
GND
CSTBYS
GC
C5V
C9V
15.5V
-8V
WB PCB-CM (CAMERA)
MA
MC
RCTL
PBCTL
CTL-RES
CP-FG
DFG
PG
CP-B
DIR
DR-ADT
D-ERROR
V REF
CP-ERROR
VERR-CP
V CP
V CP
G CP
G CP
SWS-2
GND(CTL)
GND(CTL)
VD
VD
GD
GD
VERR-D
SWS-2
D-ON
VREF
FE8.3
GND(8.3)
1
2
3
4
5
6
7
8
A
B
C
D
E

⚠

SERVICING PRECAUTION

SYMBOLS INDICATE COMPONENTS HAVING SPECIAL CHARACTERISTICS IMPORTANT TO SAFETY AND PERFORMANCE. THEREFOR REPLACEMENT OF ANY SAFETY PARTS SHOULD BE IDENTICAL IN VALUE AND CHARACTERISTICS.

DON'T DEGRADE THE SAFETY OF THE RECEIVERS THROUGH IMPROPER SERVICING.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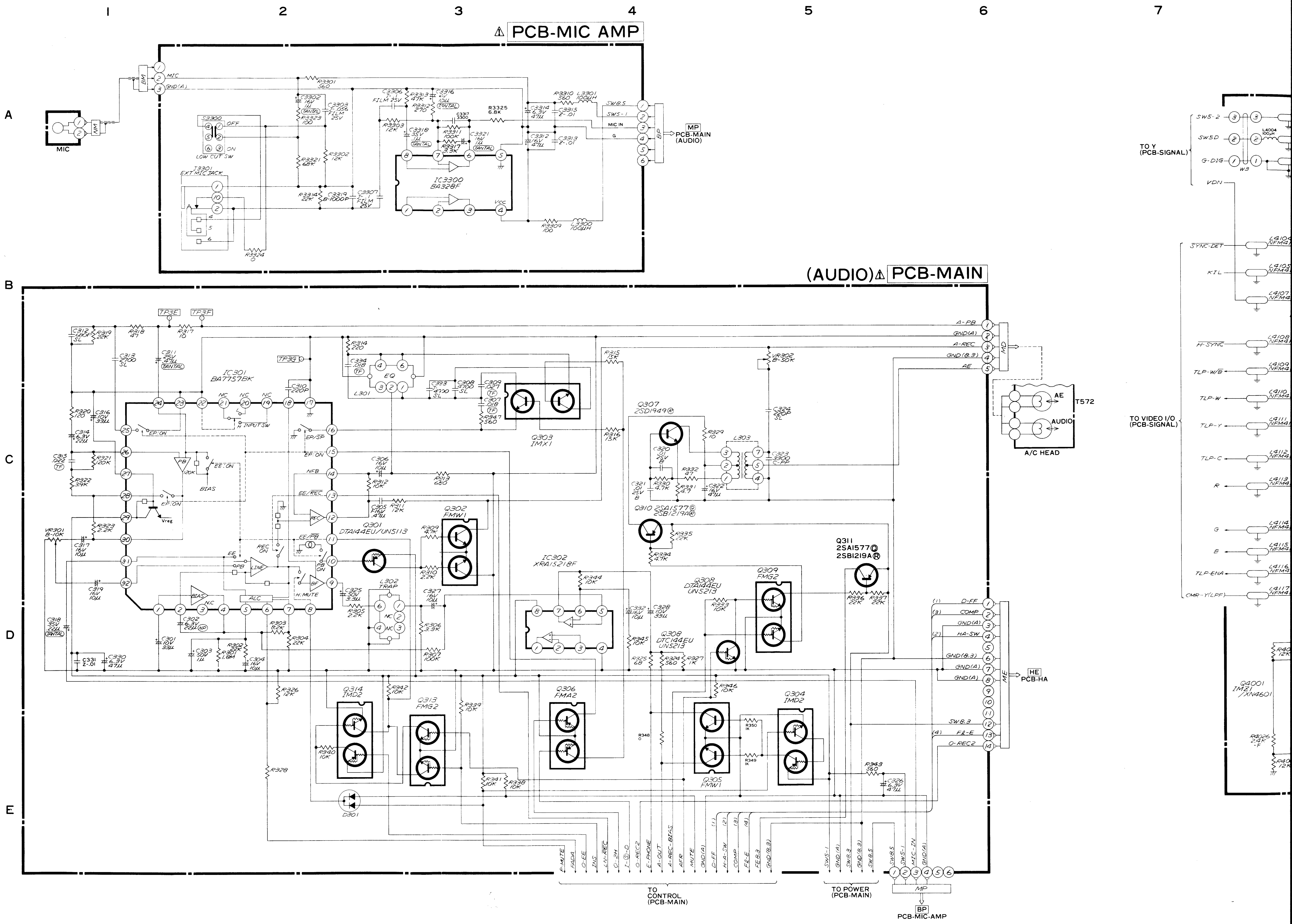
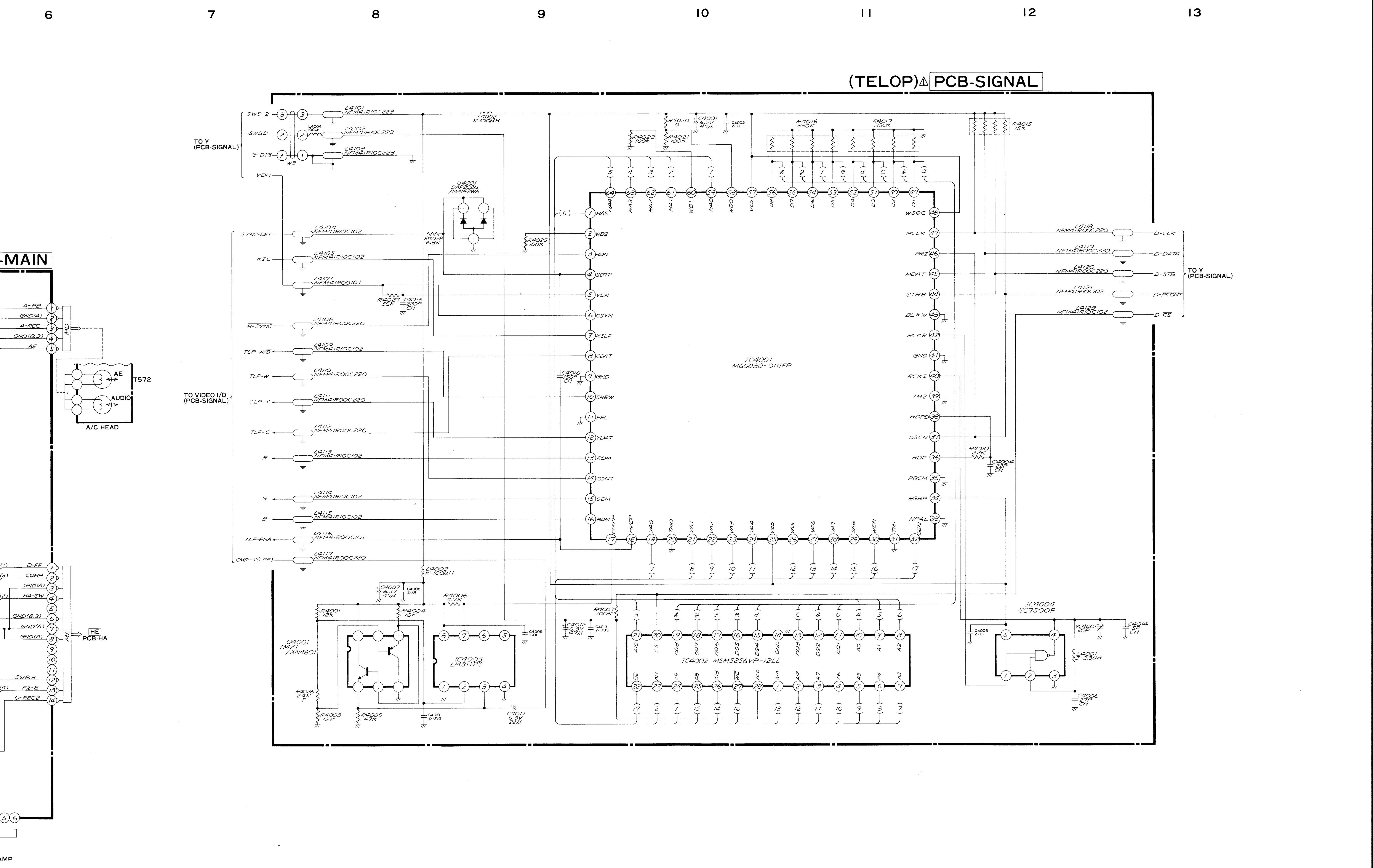
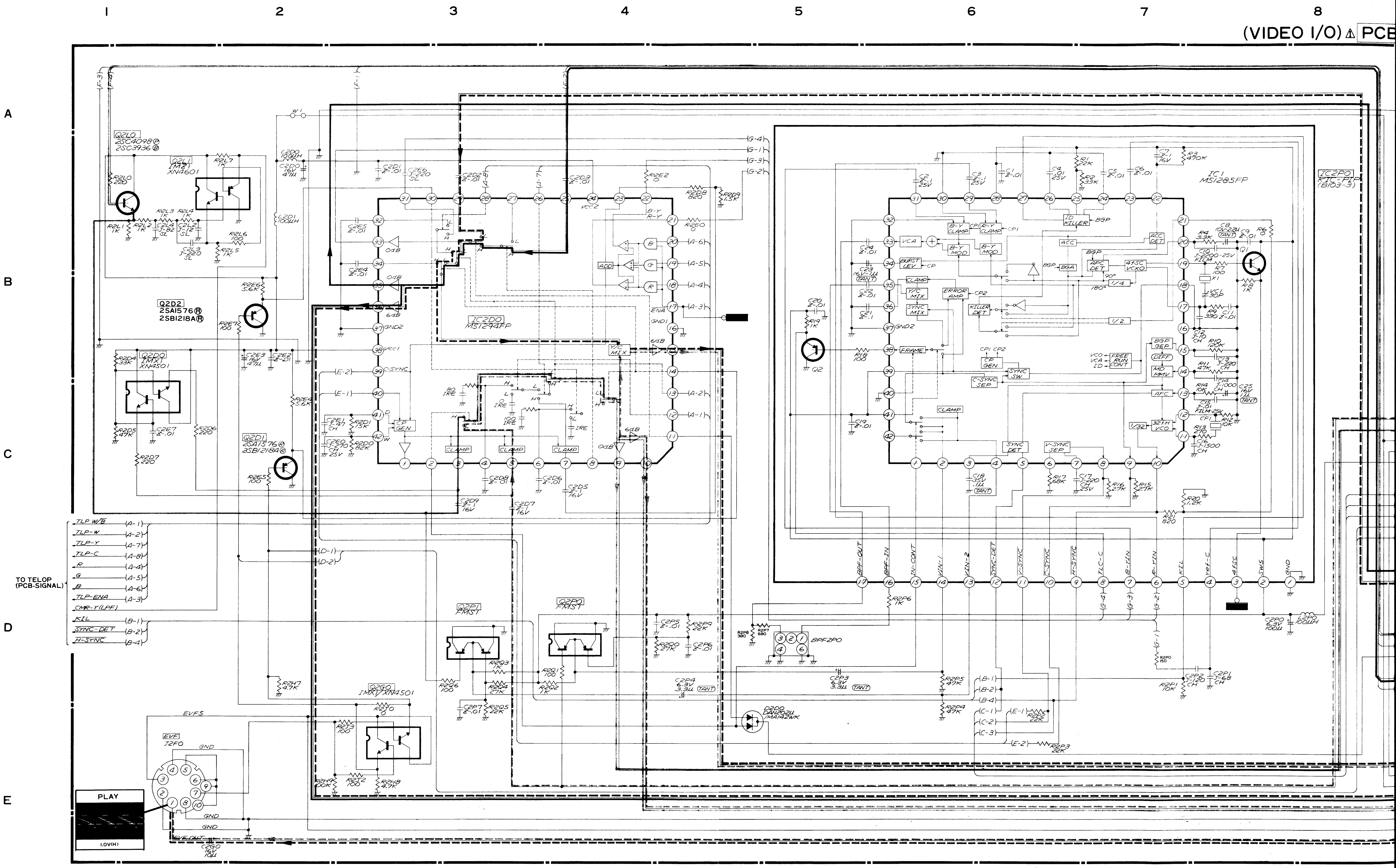
13
14
PCB-MDA
IC420 M51795FP
IC421 M5223FP
IC400 BA6431F
IC450 BA6455FS
IC952 LM393M (1/2)
Q420 2SC4081Ⓠ 2SD1819AⓈ
Q450 2SC4081Ⓠ 2SD1819AⓆ
Q400 2SC4081Ⓠ 2SD1819AⓆ
Q480 2SD1949Ⓠ
Q962 2SC4081Ⓠ 2SD1819AⓆ
D930~D932 DAP202U MA142WA
D451 DAP202U MA142WA
D450 DAN202U MA142WK
T480
L420 47μH
L450 47μH
L400 47μH
TO CONTROL (PCB-MAIN)
TO AUDIO (PCB-MAIN)
TO CONTROL (PCB-MAIN) MA
TO CONTROL (PCB-MAIN) MC
WB PCB-CM (CAMERA)
AA
AC
MB
AB
AD
AE
AF
GDIG
EVFS
SW9
SW8.5
SWS-1
GBATT
GND(A)
SW8.3
GND(8.3)
G.MOTOR
9.6V
VCP
VERR-CP
GCP
VD
GD
GND
CSTBYS
GC
C5V
C9V
15.5V
-8V
RCTL
PBCTL
CTL RES
CP-FG
DFG
PG
CP-B
DIR
DR-ADJ
D-ERROR
V REF
CP-ERROR
VERR-CP
SWS-2
GND(CTL)
VERR-D
D-ON
VREF
FE8.3
GND(8.3)
FE
CTL2
CTL1
FE T571
CTL
T572
CAPSTAN MOTOR
CP MOTOR
DRUM MOTOR
M

HS-C40A
HS-C40B
HS-C40E(4/9)


1
2
3
4
5
6
7
A
B
C
D
E
⚠ PCB-MIC AMP
(AUDIO)⚠ PCB-MAIN
MIC
S3300 LOW CUT SW
OFF
ON
J3301 EXT MIC JACK
IC3300 BA328F
VCC
R3325 6.8K
SW8.5
SW5-1
MIC IN
G
BP
MP PCB-MAIN (AUDIO)
TO Y (PCB-SIGNAL)
SW5-2
SW5D
G-DIG
VDN
L4004 100µH
W3
TO VIDEO I/O (PCB-SIGNAL)
SYNC-DET
KIL
H-SYNC
TLP-W/B
TLP-W
TLP-Y
TLP-C
R
G
E
TLP-ENA
CMR-Y(LPF)
Q4001 IM21 /XN4601
TP3E
TP3F
TP3G
IC301 BA7757BK
EP ON
H INPUT SW
EP/SP
EE ON
PB
BIAS
Vreg
NFB
EE/REC
REC
EE/PB
LINE
ALC
H.MUTE
N.C
L301 EQ
Q303 IMX1
Q302 FMW1
Q301 DTA144EU/UN5113
L302 TRAP
Q307 2SD1949®
L303
Q310 2SA1577® 2SB1219A®
IC302 XRA15218F
Q308 DTA144EU UN5213
Q309 FMG2
Q308 DTC144EU UN5213
Q311 2SA1577Ⓠ 2SB1219A®
VR302 B-50K
VR301 B-10K
A-PB
GND(A)
A-REC
GND(8.3)
AE
MD
T572
AE
AUDIO
A/C HEAD
D-FF
COMP
HA-SW
SW8.3
FL-E
O-REC2
ME
HE PCB-HA
Q314 IMD2
Q313 FMG2
Q306 FMA2
Q305 FMW1
Q304 IMD2
D301
P-MUTE
FADA
O-EE
INS
LN-REC
O-2H
I-S-D
O-REC2
E-PHONE
A-OUT
A-REC-BIAS
AFR
MUTE
GND(A)
D-FF
H-A-SW
COMP
FL-E
FE8.3
GND(8.3)
SW5-1
GND(A)
SW8.3
GND(8.3)
SW8.5
SW8.5
SW5-1
MIC-IN
GND(A)
TO CONTROL (PCB-MAIN)
TO POWER (PCB-MAIN)
MP
BP PCB-MIC-AMP


6
7
8
9
10
11
12
13
(TELOP)⚠ PCB-SIGNAL
-MAIN
TO Y (PCB-SIGNAL)
SW5-2
SW5D
G-DIG
VDN
W3
L4004 100μH
L4101 NFM41R10C223
L4102 NFM41R10C223
L4103 NFM41R10C223
L4002 K-100μH
R4020 0
C4001 6.3V 47μ
C4002 Z.01
R4023 100K
R4021 100K
R4016 330K
R4017 330K
R4015 15K
D4001 DAP202U /MA142WA
TO VIDEO I/O (PCB-SIGNAL)
SYNC-DET
KIL
H-SYNC
TLP-W/B
TLP-W
TLP-Y
TLP-C
R
G
B
TLP-ENA
CMR-Y(LPF)
L4104 NFM41R10C102
L4105 NFM41R10C102
L4107 NFM41R00101
L4108 NFM41R00C220
L4109 NFM41R10C102
L4110 NFM41R00C220
L4111 NFM41R00C220
L4112 NFM41R00C220
L4113 NFM41R10C102
L4114 NFM41R10C102
L4115 NFM41R10C102
L4116 NFM41R00C101
L4117 NFM41R00C220
R4028 6.8K
R4025 100K
R4027 56K
C4015 220P CH
C4016 150P CH
IC4001 M60030-0111FP
HA5
WB2
HDN
SDTP
VDN
CSYN
KILP
CDAT
GND
SHBW
FRC
YDAT
RDM
CONT
GDM
BDM
CMYP
HVEP
VA0
TM0
VA1
VA2
VA3
VA4
VDD
VA5
VA6
VA7
SAB
WEN
TM1
OEN
NPAL
RGBP
PBCM
HDP
DSCN
HDPD
TM2
RCKI
GND
RCKR
BLKW
STRB
MDAT
PRI
MCLK
WSQC
D1
D2
D3
D4
D5
D6
D7
D8
VDD
WB0
HA0
WB1
HA1
HA2
HA3
HA4
L4118 NFM41R00C220
L4119 NFM41R00C220
L4120 NFM41R00C220
L4121 NFM41R10C102
L4123 NFM41R10C102
D-CLK
D-DATA
D-STB
D-PCONT
D-CS
TO Y (PCB-SIGNAL)
R4010 2.2K
C4004 22P CH
A-PB
GND(A)
A-REC
GND(8.3)
AE
MD
AE
AUDIO
T572
A/C HEAD
D-FF
COMP
GND(A)
HA-SW
GND(8.3)
GND(A)
GND(A)
SW8.3
FE-E
Q-REC2
ME
HE PCB-HA
L4003 K-100μH
C4007 6.3V 47μ
C4008 Z.01
R4006 4.7K
R4001 12K
R4004 10K
C4009 Z.01
Q4001 IM21 /XN4601
IC4003 LM311PS
R4026 2.4K -F
R4003 12K
R4005 4.7K
C4010 Z.033
C4011 6.3V 22μ
R4007 100K
C4012 6.3V 47μ
C4013 Z.033
IC4002 MSM5256VP-12LL
A10
CS
DQ8
DQ7
DQ6
DQ5
DQ4
GND
DQ3
DQ2
DQ1
A0
A1
A2
OE
A11
A9
A8
A13
WE
VCC
A14
A12
A7
A6
A5
A4
A3
IC4004 SC7S00F
C4005 Z.01
VC4001 25P
C4014 5P CH
L4001 3.3μH
C4006 27P CH
AMP

(VIDEO I/O) ⚠ PCB


1
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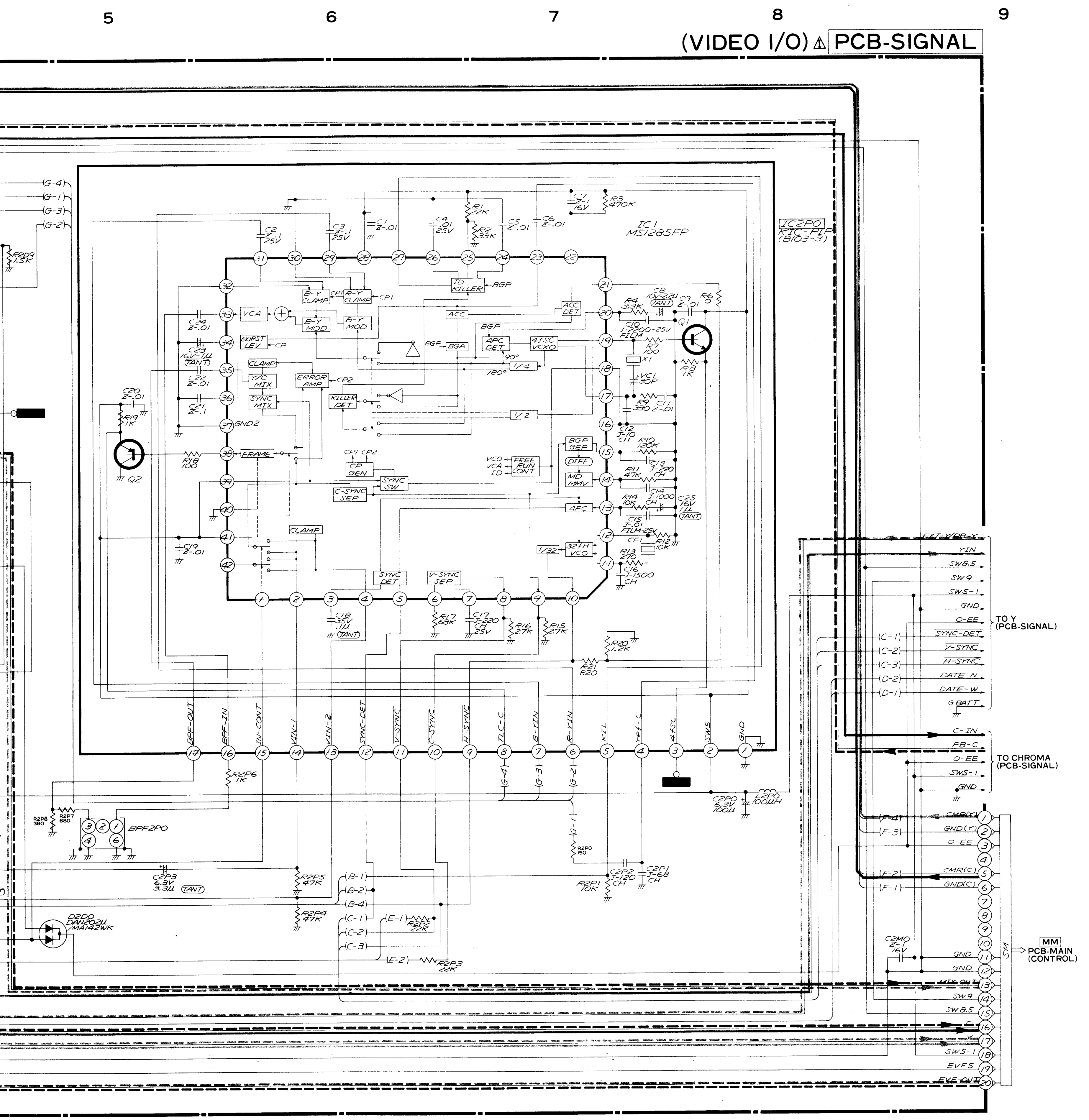
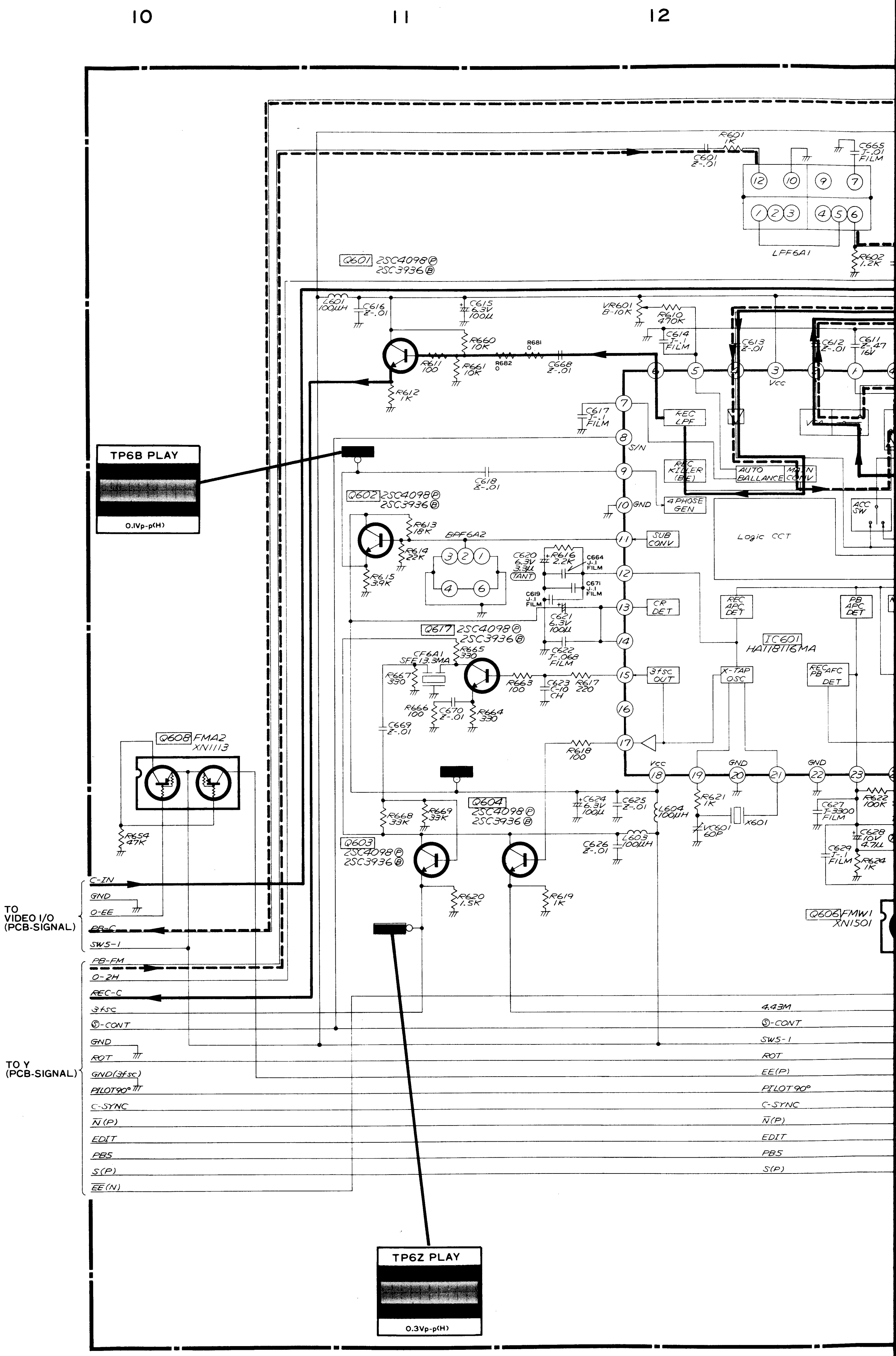
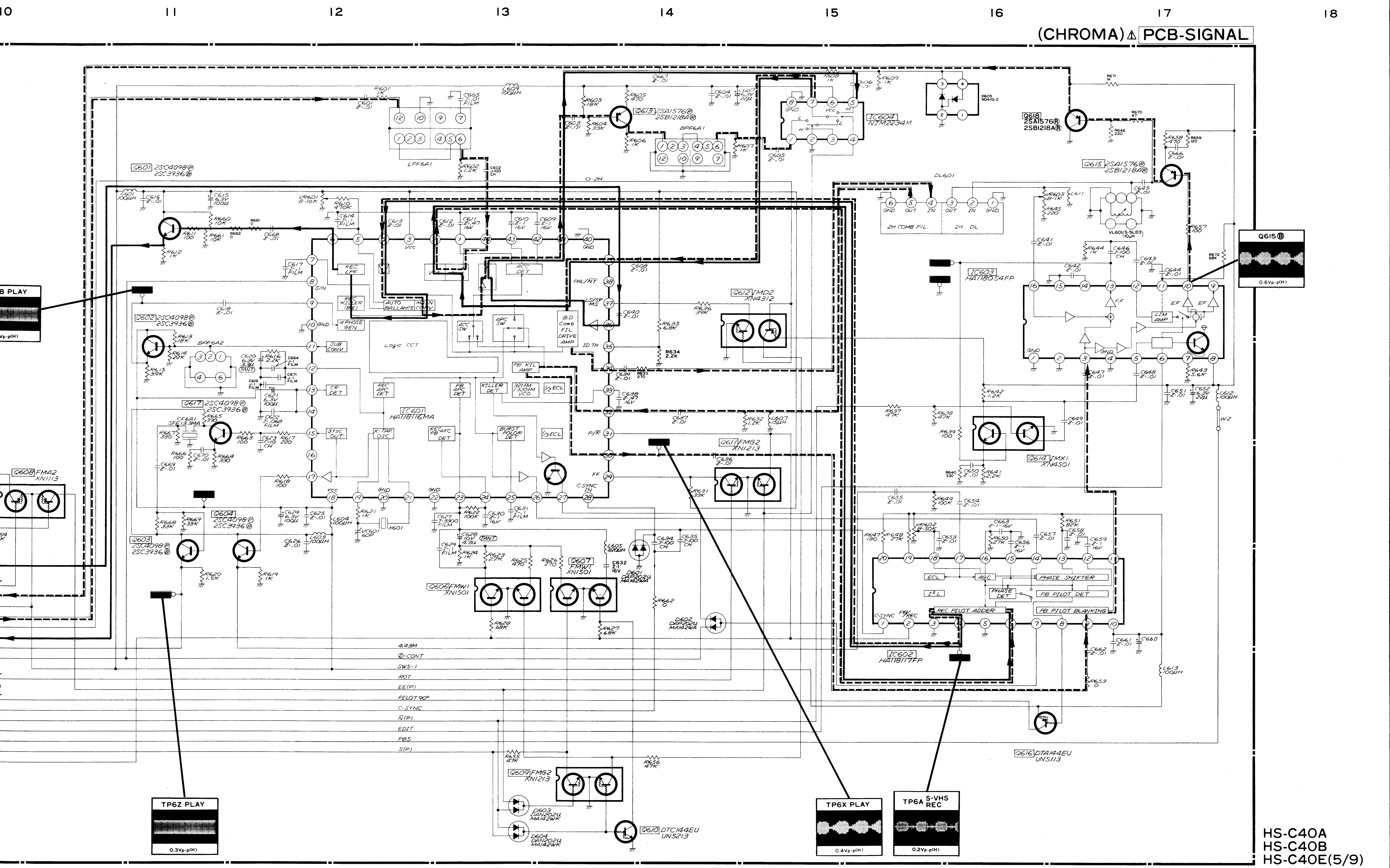
6
7
8
A
B
C
D
E
Q2L0
2SC4098®
2SC3936®
Q2L1
IMZ1
XN4601
Q2D2
2SA1576®
2SB1218A®
Q2D0
IMX1
XN4501
Q2D1
2SA1576®
2SB1218A®
IC2D0
M51294FP
IC2P0
KTC-PIP
(B103-3)
IC1
M51285FP
Q1
Q2
Q2P1
FMS1
Q2P0
FMS1
Q2G0
IMX1/XN4501
D2D0
DA202U
/MA142WK
BPF2P0
X1
TO TELOP
(PCB-SIGNAL)
TLP W/B
TLP-W
TLP-Y
TLP-C
R
G
B
TLP-ENA
CMR-Y(LPF)
KIL
SYNC-DET
H-SYNC
EVF
J2F0
EVF5
GND
EVF OUT
PLAY
1.0V(H)
BPF-OUT
BPF-IN
IN-CONT
VIN-1
VIN-2
SYNC-DET
V-SYNC
F-SYNC
H-SYNC
TLC-C
B-YIN
R-YIN
KIL
Y+I-C
4fSC
SW5
GND
CLAMP
CP GEN
Y/C MIX
ADD
VCA
BURST LEV
SYNC MIX
FRAME
B-Y CLAMP
R-Y CLAMP
B-Y MOD
R-Y MOD
ERROR AMP
KILLER DET
ID KILLER
ACC
ACC DET
APC DET
4fSC VCXO
1/4
1/2
BGA
BGP
BGP GEP
DIFF
FREE RUN CONT
MD MMV
C-SYNC SEP
SYNC SW
AFC
1/32
32FH VCO
SYNC DET
V-SYNC SEP
GND1
GND2
VCC1
VCC2
ENA
C-SYNC
6dB
0dB
IRE
90°
180°

(VIDEO I/O) ⚠ PCB-SIGNAL

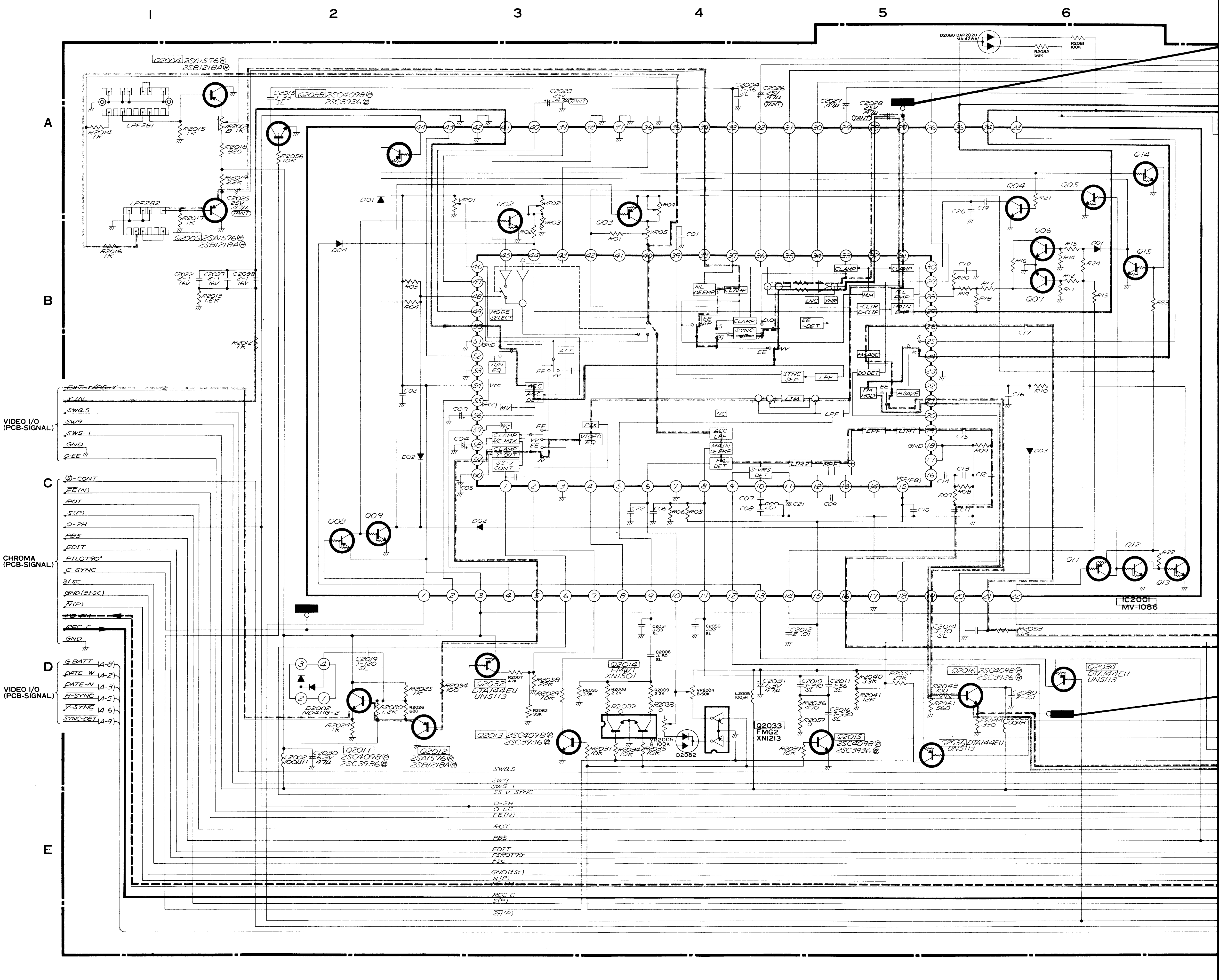

5
6
7
8
9
IC1 M51285FP
IC2P0 FIC-PIP (B103-3)
B-Y CLAMP
R-Y CLAMP
ID KILLER
BGP
ACC
ACC DET
VCA
B-Y MOD
R-Y MOD
BURST LEV
APC DET
4fSC VCXO
BGA
CLAMP
Y/C MIX
ERROR AMP
SYNC MIX
KILLER DET
1/4
1/2
FRAME
CP GEN
SYNC SW
C-SYNC SEP
BGP GEP
DIFF
FREE RUN CONT
MD MMV
AFC
32fH VCO
1/32
SYNC DET
V-SYNC SEP
GND2
Q1
Q2
X1
BPF-OUT
BPF-IN
IN-CONT
VIN-1
VIN-2
SYNC-DET
V-SYNC
C-SYNC
H-SYNC
TLC-C
B-YIN
R-YIN
KIL
ref-C
4fSC
SW5
GND
BPF2P0
D2P0 DAN202U /MA142WK
EXT-V/PB-Y
YIN
SW8.5
SW9
SW5-1
GND
O-EE
SYNC-DET
V-SYNC
H-SYNC
DATE-N
DATE-W
G BATT
TO Y (PCB-SIGNAL)
C-IN
PB-C
O-EE
SW5-1
GND
TO CHROMA (PCB-SIGNAL)
CMR(Y)
GND(Y)
O-EE
CMR(C)
GND(C)
GND
MIX OUT
SW9
SW8.5
SW5-1
EVFS
EVF OUT
MM PCB-MAIN (CONTROL)
SM


10
11
12
LFF6A1
Q601 2SC4098Ⓡ 2SC3936Ⓡ
Q602 2SC4098Ⓡ 2SC3936Ⓡ
Q603 2SC4098Ⓡ 2SC3936Ⓡ
Q604 2SC4098Ⓡ 2SC3936Ⓡ
Q617 2SC4098Ⓡ 2SC3936Ⓡ
Q608 FMA2 XN1113
Q606 FMW1 XN1501
IC601 HA118116MA
BPF6A2
CF6A1 SFE13.3MA
X601
VR601 B-10K
REC LPF
REC KILLER (BE)
AUTO BALLANCE
MAIN CONV
4 PHASE GEN
SUB CONV
CR DET
3fSC OUT
X-TAP OSC
REC APC DET
REC AFC DET
PB APC DET
ACC SW
Logic CCT
S/N
GND
Vcc
TP68 PLAY
0.1Vp-p(H)
TP62 PLAY
0.3Vp-p(H)
C-IN
GND
O-EE
PB-C
SW5-1
TO VIDEO I/O (PCB-SIGNAL)
PB-FM
O-2H
REC-C
3fSC
Φ-CONT
GND
ROT
GND(3fSC)
PILOT90°
C-SYNC
N(P)
EDIT
PBS
S(P)
EE(N)
TO Y (PCB-SIGNAL)
4.43M
Φ-CONT
SW5-1
ROT
EE(P)
PILOT 90°
C-SYNC
N(P)
EDIT
PBS
S(P)

(CHROMA) ⚠ PCB-SIGNAL


10
11
12
13
14
15
16
17
18
B PLAY
Vp-p(H)
Q601 2SC4098(R) 2SC3936(R)
Q602 2SC4098(R) 2SC3936(R)
Q603 2SC4098(R) 2SC3936(R)
Q604 2SC4098(R) 2SC3936(R)
Q617 2SC4098(R) 2SC3936(R)
Q608 FMA2 XN1113
Q613 2SA1576(R) 2SB1218A(R)
Q618 2SA1576(R) 2SB1218A(R)
Q615 2SA1576(R) 2SB1218A(R)
Q612 IMD2 XN4312
Q611 FMG2 XN1213
Q614 IMX1 XN4501
Q606 FMW1 XN1501
Q607 FMW1 XN1501
Q609 FMG2 XN1213
Q610 DTC144EU UN5213
Q616 DTA144EU UN5113
IC601 HA118116MA
IC602 HA118117FP
IC603 HA11805 4FP
IC604 NJM2234M
D601 DAP202U MA142WA
D602 DAP202U MA142WA
D603 DAN202U MA142WK
D604 DAN202U MA142WK
D605 ND41G-2
LPF6A1
BPF6A1
BPF6A2
CF6A1 SFE13.3MA
DL601
2H COMB FIL.
2H DL
VL601(S.5L03) 10µH
REC LPF
REC KILLER (B/E)
AUTO BALLANCE
MAIN CONV
4 PHASE GEN
SUB CONV
CR DET
3fsc OUT
X-TAP OSC
REC APC DET
PB APC DET
REC AFC FB DET
KILLER DET
BURST FOLOR DET
321fH 3201fH VCO
1/2 ECL
1/3 ECL
ACC DET
ACC SW
APC SW
PB KIL AMP
B.D Comb FIL DRIVE AMP
Logic CCT
PAL/NT
LS/SP MS
ID TH
P/R
FF
C SYNC IN
VCC
GND
S/N
LIM AMP
EF
ECL
AGC
PHASE SHIFTER
I²L
PHASE DET
PB PILOT DET
REC PILOT ADDER
PB PILOT BLANKING
C-SYNC
PB/REC
O-2H
W2
4.43M
S-CONT
SWS-1
ROT
EE(P)
PILOT 90°
C-SYNC
N(P)
EDIT
PBS
S(P)
Q615(B)
0.6Vp-p(H)
TP6Z PLAY
0.3Vp-p(H)
TP6X PLAY
0.4Vp-p(H)
TP6A S-VHS REC
0.2Vp-p(H)

HS-C40A
HS-C40B
HS-C40E(5/9)


1
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5
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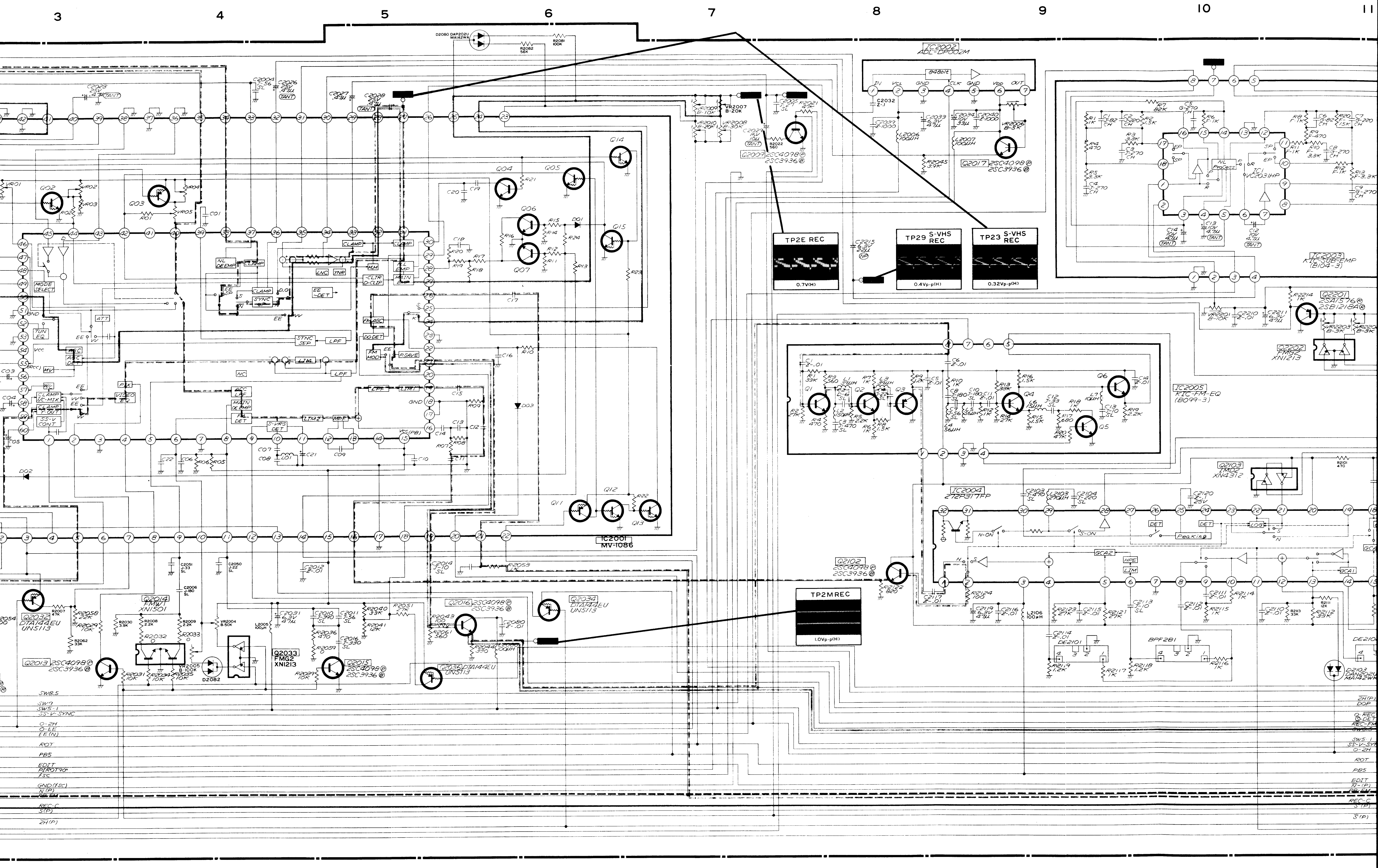
A
B
C
D
E
VIDEO I/O (PCB-SIGNAL)
CHROMA (PCB-SIGNAL)
VIDEO I/O (PCB-SIGNAL)
EXT-Y/PB-Y
Y-IN
SW8.5
SW9
SW5-1
GND
Q-EE
S-CONT
EE(N)
ROT
S(P)
O-2H
PB5
EDIT
PILOT90°
C-SYNC
3fsc
GND(3fsc)
N(P)
PB-FM
REC-C
GND
G BATT (A-8)
DATE-W (A-2)
DATE-N (A-3)
H-SYNC (A-5)
V-SYNC (A-6)
SYNC-DET (A-9)
Q2004 2SA1576® 2SB1218A®
Q2005 2SA1576® 2SB1218A®
Q2038 2SC4098® 2SC3936®
LPF281
LPF282
R2014 1K
R2015 1K
R2016 1K
R2017 1K
VR2003 B-1K
R2018 820
R2019 2.2K
C2025 25V .47μ TANT
C2015 J-33 SL
C2023 25V 4.7μ TANT
R2056 10K
C2022 Z-.1 16V
C2037 Z-.1 16V
C2038 Z-.1 16V
R2013 1.8K
R2012 1K
C2004 J-56 SL
C2026 25V .47μ TANT
C2027 .47μ
C2029 25V .47μ TANT
D2080 DAP202U MA142WA
R2082 56K
R2081 100K
Q02
Q03
Q04
Q05
Q06
Q07
Q08
Q09
Q11
Q12
Q13
Q14
Q15
D01
D02
D03
D04
VR01
VR02
VR03
VR04
VR05
R01
R02
R03
R04
R05
R06
R07
R08
R09
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
C01
C02
C03
C04
C05
C06
C07
C08
C09
C10
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
C22
L01
NL DEEMP
CLAMP
LNC
YNR
M.M
NL EMP
CLTR D-CLIP
MAIN EMP
EE-DET
SYNC SEP
LPF
MODE SELECT
TUN EQ
ATT
AGC DET
MV
W/C CLAMP
CLAMP Y/C-MIX
CLAMP Y OUT
SS-V CONT
VIDEO EQ
PIX
NC
ACC LAF
MAIN DEEMP
FM DET
S-VRS DET
LIM2
LIM1
FM AGC
DO DET
FM MOD
P.SAVE
GND
VCC
VCC(PB)
EE
VV
IC2001 MV-1086
C2051 J-33 SL
C2050 J-22 SL
C2006 J-180 SL
C2012 Z-.01
C2014 J-10 SL
R2053 1.5K
D2002 ND4116-2
C2019 J-120 SL
R2025 1K
R2080 1.2K
R2026 680
R2024 1K
R2054 100
Q2011 2SC4098® 2SC3936®
Q2012 2SA1576® 2SB1218A®
L2002 100μH
C2030 6.3V 47μ
Q2032 DTA144EU UN5113
R2007 47K
R2058 22K
R2029 10K
R2062 33K
Q2013 2SC4098® 2SC3936®
R2030 3.9K
R2031 10K
Q2014 FMW1 XN1501
R2008 2.2K
R2009 2.2K
R2032 0
R2033 0
R2034 10K
R2035 10K
VR2005 B-100K
D2082
VR2004 B-50K
L2005 100μH
Q2033 FMG2 XN1213
C2031 6.3V 47μ
C2010 J-390 SL
C2011 J-56 SL
R2036 470
R2059 0
C2016 J-330 SL
R2037 10K
Q2015 2SC4098® 2SC3936®
R2040 39K
R2041 12K
R2051 27K
Q2016 2SC4098® 2SC3936®
R2043 100
R2061 560
R2044 330
L 100μH
C2080 Z-.01
Q2034 DTA144EU UN5113
Q2036 DTA144EU UN5113
SW8.5
SW9
SW5-1
SS-V-SYNC
O-2H
Q-EE
EE(N)
ROT
PB5
EDIT
PILOT90°
fsc
GND(fsc)
N(P)
PB-FM
REC-C
S(P)
2H(P)


3
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7
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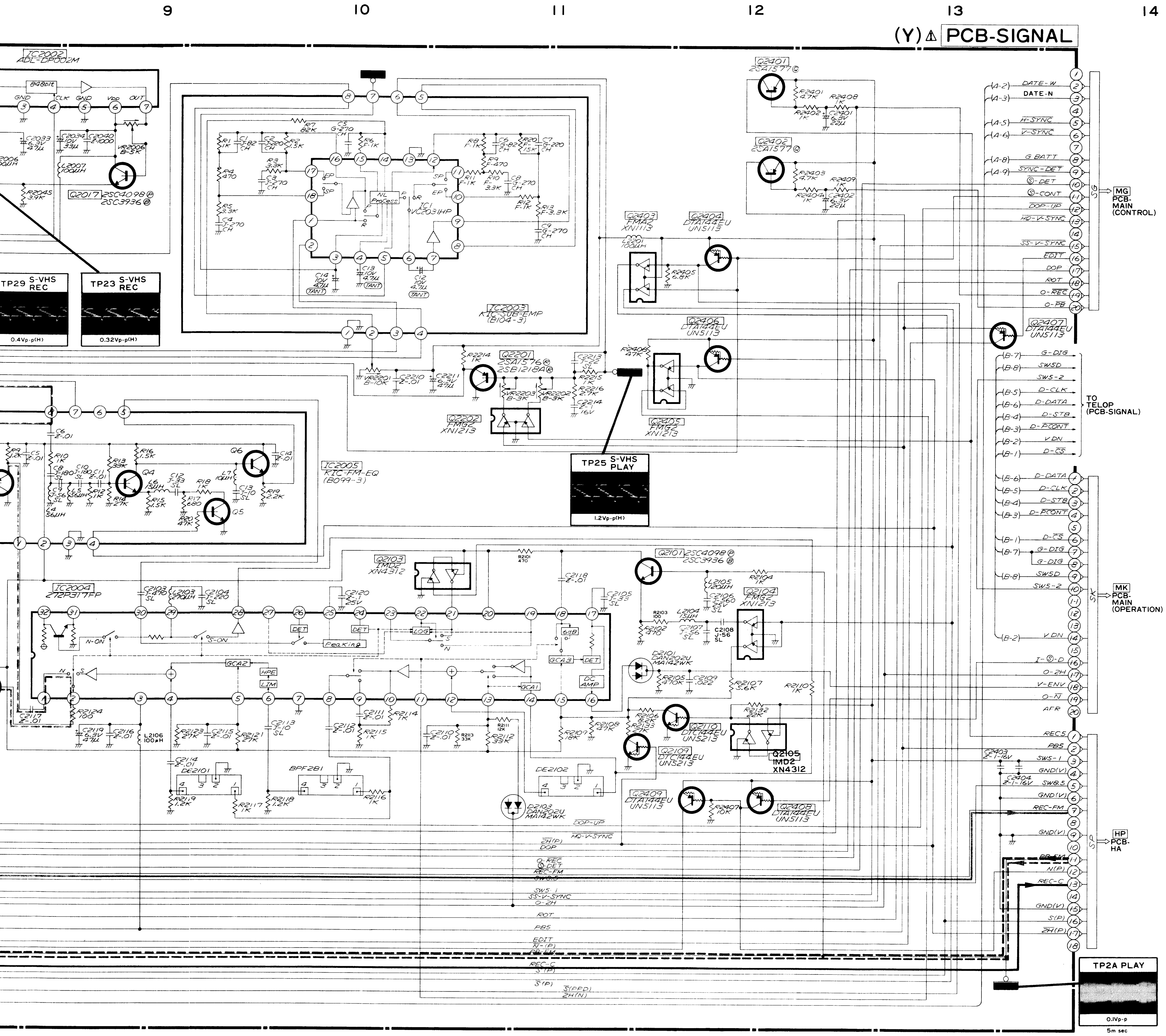
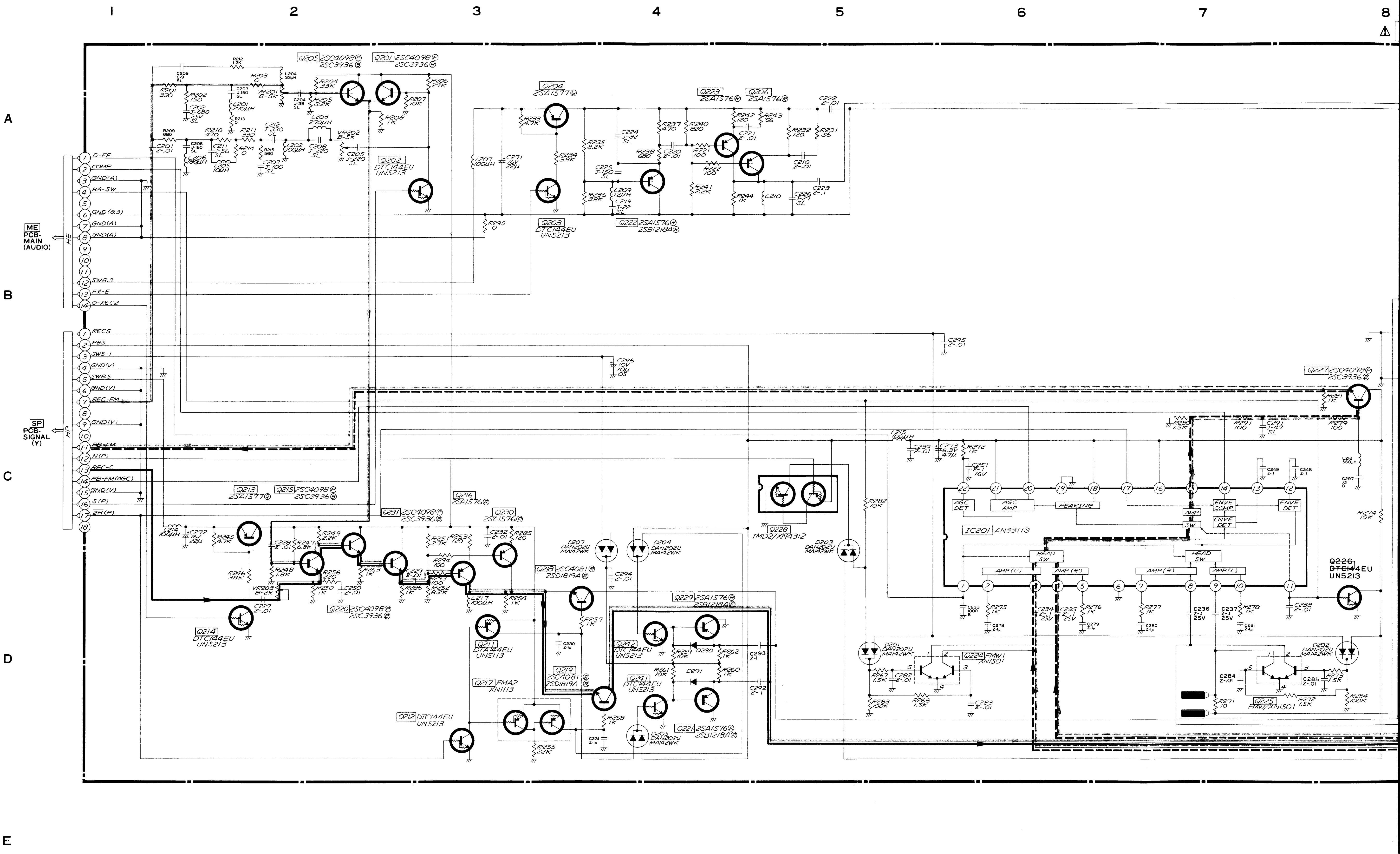
9
10
11
D2080 DAP202U MA142WA
R2082 56K
R2081 100K
IC2002 ADL-DP002M
848bit
IN
VCL
GND
CLK
GND
VDD
OUT
VR2006 B-5K
Q2017 2SC4098(B) 2SC3936(B)
Q2009 2SC4098(B) 2SC3936(B)
VR2007 B-20K
VR2009 B-10K
VR2010 B-20K
VR2008 B-30K
R2022 560
R2021 47K
IC1 VC2031HP
NL Process
EP
SP
IC2003 KTC-SUB-EMP (B104-3)
TP2E REC
0.7V(H)
TP29 S-VHS REC
0.4Vp-p(H)
TP23 S-VHS REC
0.32Vp-p(H)
Q01
Q02
Q03
Q04
Q05
Q06
Q07
Q11
Q12
Q13
Q14
Q15
D01
D02
D03
VR01
VR02
VR03
VR04
VR05
MODE SELECT
TUN EQ
REC AGC DET
ATT
CLAMP Y/C-MIX
CLAMP Y OUT
SS-V CONT
VIDEO EQ
P/ATT
NL DEEMP
CLAMP
SYNC SEP
LNC
YNR
EE DET
STNC SEP
LPF
LIM
NC
MM
CLTR O-CLIP
NL EMP
MAIN EMP
FM AGC
DO DET
FM MOD
P.SAVE
CLAMP
LPF
LIM1
LIM2
HPF
MAIN DEEMP
FM DET
S-VHS DET
IC2001 MV-1086
Q2201 2SA1576(R) 2SB1218A(R)
VR2201 B-10K
VR2203 B-3K
Q2202 FMG2 XN1213
IC2005 KTC-FM-EQ (B099-3)
Q1
Q2
Q3
Q4
Q5
Q6
Q2103 IMD2 XN4312
IC2004 272P317FP
N-ON
S-ON
DET
Peaking
LOG
GCA2
HPE
LIM
GCA1
Q2102 2SC4098(B) 2SC3936(B)
R2122 820
L2106 100μH
DE2101
BPF281
D2103 DAN202U MA142WK
TP2MREC
1.0Vp-p(H)
Q2016 2SC4098(B) 2SC3936(B)
Q2034 DTA144EU UN5113
Q2036 DTA144EU UN5113
Q2015 2SC4098(B) 2SC3936(B)
Q2033 FMG2 XN1213
Q2014 FMW1 XN1501
VR2004 B-50K
VR2005 B-100K
D2082
L2005 100μH
Q2032 DTA144EU UN5113
Q2013 2SC4098(B) 2SC3936(B)
SW8.5
SW7
SW5-1
SS-V-SYNC
O-2H
O-LE
EE(N)
ROT
PB5
EDIT
PI ROT90
FSC
GND(FSC)
N(P)
REC-C
S(P)
2H(P)
2H(P)
DOP
O-REC
O-DET
REC-FM
SW5-1
SS-V-SYNC
O-2H
ROT
PB5
EDIT
N(P)
REC-C
S(P)
S(P)

(Y) ⚠ PCB-SIGNAL


9
10
11
12
13
14
IC2002 ADL-DP002M
Q2017 2SC4098 2SC3936
VR2006 B-5K
TP29 S-VHS REC
0.4Vp-p(H)
TP23 S-VHS REC
0.32Vp-p(H)
IC2003 KIC-S08-EMP (B104-3)
IC1 VC2031HP
NL Process
Q2201 2SA1576 2SB1218A
Q2202 FMG2 XN1213
VR2201 B-10K
VR2203 B-3K
VR2202 B-3K
TP25 S-VHS PLAY
1.2Vp-p(H)
Q2401 2SA1577
Q2402 2SA1577
Q2403 FMA2 XN1113
Q2404 DTA144EU UN5113
Q2405 FMG2 XN1213
Q2406 DTA144EU UN5113
Q2407 DTA144EU UN5113
IC2005 KIC-FM-EQ (B099-3)
Q4
Q5
Q6
IC2004 27BP317FP
GCA2
GCA1
GCA3
HPE
LIM
DET
Peaking
LOG
6dB
OC AMP
N-ON
S-ON
Q2101 2SC4098 2SC3936
Q2103 IMD2 XN4312
Q2104 FMG2 XN1213
Q2105 IMD2 XN4312
Q2109 DTC144EU UN5213
Q2110 DTC144EU UN5213
Q2408 DTA144EU UN5113
Q2409 DTA144EU UN5113
D2101 DAN202U MA142WK
D2103 DAN202U MA142WK
DE2101
DE2102
BPF281
L2106 100μH
DATE-W
DATE-N
H-SYNC
V-SYNC
G BATT
SYNC-DET
S-DET
S-CONT
DOP-UP
HQ-V-SYNC
SS-V-SYNC
EDIT
DOP
ROT
O-REC
O-PB
SG
MG PCB-MAIN (CONTROL)
G-DIG
SWSD
SWS-2
D-CLK
D-DATA
D-STB
D-PCONT
V DN
D-CS
TO TELOP (PCB-SIGNAL)
SK
MK PCB-MAIN (OPERATION)
I-S-D
O-2H
V-ENV
O-N
AFR
RECS
PBS
SWS-1
GND(V)
SWB.S
REC-FM
PB-FM
N(P)
REC-C
S(P)
2H(P)
SP
HP PCB-HA
TP2A PLAY
0.1Vp-p
5m sec


1
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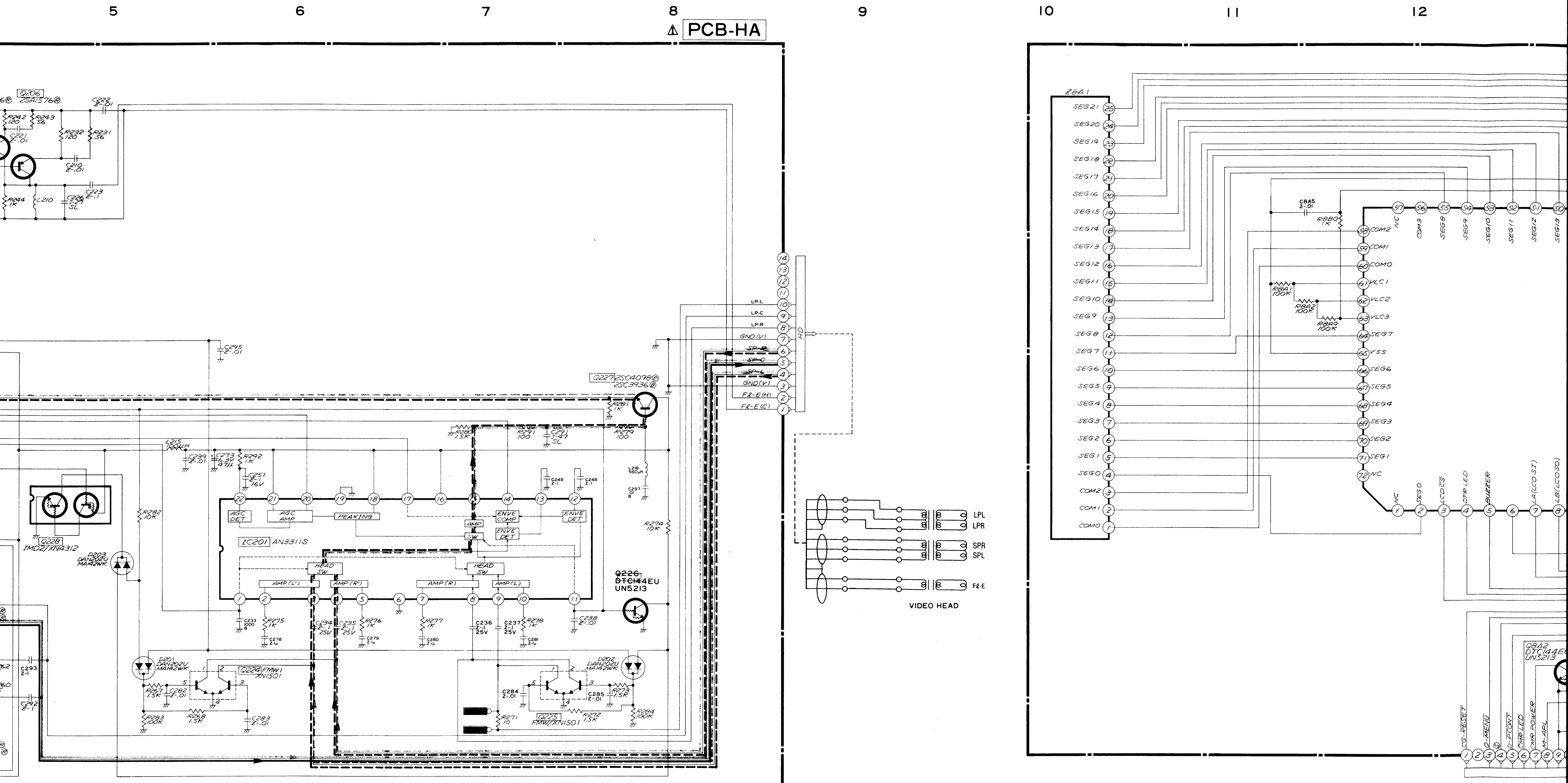
7
8
A
B
C
D
E
ME PCB-MAIN (AUDIO)
SP PCB-SIGNAL (Y)
HE
HP
D-FF
COMP
GND(A)
HA-SW
GND(8.3)
SW8.3
FR-E
O-REC2
RECS
PBS
SW5-1
GND(V)
SW8.5
REC-FM
PB-FM
N(P)
REC-C
PB-FM(AGC)
S(P)
2H(P)
Q205 2SC4098Ⓟ 2SC3936Ⓡ
Q201 2SC4098Ⓟ 2SC3936Ⓡ
Q202 DTC144EU UN5213
Q204 2SA1577Ⓠ
Q203 DTC144EU UN5213
Q223 2SA1576Ⓡ
Q206 2SA1576Ⓡ
Q222 2SA1576Ⓡ 2SB1218AⓇ
Q227 2SC4098Ⓟ 2SC3936Ⓡ
Q228 IMD2/XN4312
IC201 AN3311S
Q226 DTC144EU UN5213
Q213 2SA1577Ⓠ
Q215 2SC4098Ⓟ 2SC3936Ⓡ
Q216 2SA1576Ⓡ
Q231 2SC4098Ⓟ 2SC3936Ⓡ
Q230 2SA1576Ⓡ
Q214 DTC144EU UN5213
Q220 2SC4098Ⓟ 2SC3936Ⓡ
Q218 2SC4081Ⓡ 2SD1819AⓇ
Q229 2SA1576Ⓡ 2SB1218AⓇ
Q211 DTA144EU UN1113
Q242 DTC144EU UN5213
Q219 2SC4081Ⓡ 2SD1819AⓇ
Q241 DTC144EU UN5213
Q217 FMA2 XN1113
Q212 DTC144EU UN5213
Q221 2SA1576Ⓡ 2SB1218AⓇ
Q224 FMW1 XN1501
Q225 FMW1/XN1501
D207 DAN202U MA142WK
D204 DAN202U MA142WK
D203 DAN202U MA142WK
D205 DAN202U MA142WK
D201 DAN202U MA142WK
D202 DAN202U MA142WK
D290
D291
AGC DET
AGC AMP
PEAKING
AMP
SW
ENVE COMP
ENVE DET
HEAD SW
AMP(L')
AMP(R')
AMP(R)
AMP(L)
R201 330
R202 150
R203 0
R204 33K
R205 8.2K
R206 27K
R207 10K
R208 1K
R209 680
R210 470
R211 330
R212 1.2K
R213 0
R214 0
R215 560
VR201 B-5K
VR202 B-5K
L201 270μH
L202 100μH
L203 270μH
L204 33μH
L205 10μH
L206 180μH
C201 Z-.01
C202 J-680 25V SL
C203 J-150 SL
C204 J-39 SL
C205 J-220 SL
C206 J-180 SL
C207 J-100 SL
C208 J-220 SL
C209 C-9 SL
C211 J-56 SL
C212 J-330 SL
R233 4.7K
R234 3.9K
R235 8.2K
R236 3.9K
R237 470
R238 680
R240 820
R221 100
R222 100
R241 2.2K
R242 120
R243 56
R244 1K
R232 120
R231 56
L207 100μH
C271 16V 22μ
C224 J-82 SL
C225 J-150 SL
C209 12μH
C219 J-22 SL
C220 Z-.01
C221 Z-.01
C210 Z-.01
C222 Z-.01
C223 Z-.1
C226 J-27 SL
R295 0
C295 Z-.01
C296 10V 10μ OS
L215 100μH
C239 Z-.01
C273 6.3V 47μ
R292 1K
C251 Z-.1 16V
R280 1.5K
R291 100
C271 J-47 SL
R281 1K
R279 100
C249 Z-1
C248 Z-1
L218 560μH
C297 .01 B
R274 10K
R282 10K
C233 100 B
R275 1K
C278 Z-1μ
C234 Z-1 25V
C235 Z-1 25V
R276 1K
C279 Z-1μ
R277 1K
C280 Z-1μ
C236 Z-1 25V
C237 Z-1 25V
R278 1K
C281 Z-1μ
C238 Z-.01
R267 1.5K
C282 Z-.01
R268 1.5K
R283 100K
C283 Z-.01
C284 Z-.01
C285 Z-.01
R273 1.5K
R272 1.5K
R271 10
R284 100K
L214 100μH
C272 16V 22μ
R245 4.7K
R246 3.9K
VR203 B-2K
C227 Z-.01
C228 Z-.01
R247 6.8K
R248 1.8K
R249 2.2K
R256 220
R250 1K
C250 Z-.01
R263 1K
C229 Z-.01
R286 1K
R294 100
R293 100
R252 8.2K
R251 2.7K
R253 120
C232 Z-.01
R285 120
L217 100μH
R254 1K
C294 Z-.01
R257 1K
C230 Z-1μ
R259 10K
R262 1K
R261 10K
R260 1K
C293 Z-1
C292 Z-1
R258 1K
C231 Z-1μ
R255 22K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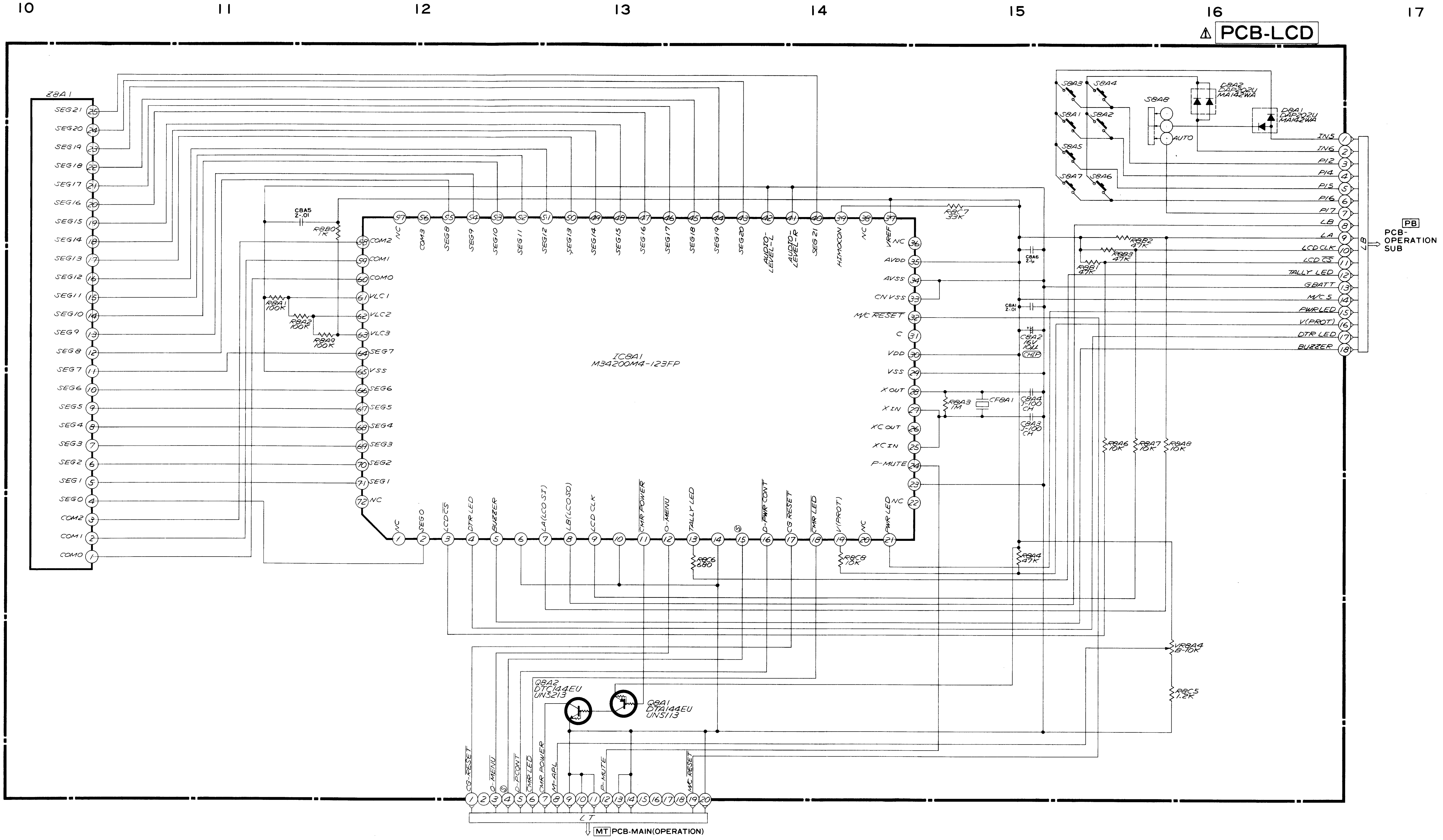
⚠ PCB-HA
Q206 2SA1576®
R242 120
R243 56
C222 Z-.01
R232 120
R231 56
C221 Z-.01
C210 Z-.01
R244 1K
L210
C226 J-27 SL
C223 Z-1
C295 Z-.01
Q227 2SC4098® 2SC3936®
R281 1K
LP-L
LP-C
LP-R
GND(V)
SP-R
SP-C
SP-L
GND(V)
FE-E(H)
FE-E(C)
HD
L215 100μH
C239 Z-.01
C273 6.3V 47μ
R292 1K
C251 Z-1 16V
R290 1.5K
R291 100
C241 J-47 SL
R279 100
C249 Z-1
C248 Z-1
L218 560μH
C297 .01 B
Q228 IMD2/XN4312
D203 DAN202U MA142WK
R282 10K
AGC DET
AGC AMP
PEAKING
AMP SW
ENVE COMP
ENVE DET
ENVE DET
IC201 AN3311S
HEAD SW
HEAD SW
AMP(L')
AMP(R')
AMP(R)
AMP(L)
R274 10K
Q226 ~~DTC144EU~~ UN5213
C233 1000 B
R275 1K
C278 Z-1μ
C234 Z-1 25V
C235 Z-1 25V
R276 1K
C279 Z-1μ
R277 1K
C280 Z-1μ
C236 Z-1 25V
C237 Z-1 25V
R278 1K
C281 Z-1μ
C238 Z-.01
D201 DAN202U MA142WK
Q224 FMW1 XN1501
R267 1.5K
C282 Z-.01
R283 100K
R268 1.5K
C283 Z-.01
C293 Z-1
C292 Z-1
D202 DAN202U MA142WK
C284 Z-.01
C285 Z-.01
R273 1.5K
R271 10
Q225 FMW/XN1501
R272 1.5K
R284 100K
LPL
LPR
SPR
SPL
FE-E
VIDEO HEAD
Z8A1
SEG21
SEG20
SEG19
SEG18
SEG17
SEG16
SEG15
SEG14
SEG13
SEG12
SEG11
SEG10
SEG9
SEG8
SEG7
SEG6
SEG5
SEG4
SEG3
SEG2
SEG1
SEG0
COM2
COM1
COM0
C8A5 Z-.01
R8B0 1K
R8A1 100K
R8A2 100K
R8A9 100K
COM2
COM1
COM0
VLC1
VLC2
VLC3
SEG7
VSS
SEG6
SEG5
SEG4
SEG3
SEG2
SEG1
NC
NC
COM3
SEG8
SEG9
SEG10
SEG11
SEG12
SEG13
NC
SEG0
LCDCS
DTR LED
BUZZER
LA(LCOST)
LB(LCOSD)
Q8A2 DTC144E UN5213
CG-RESET
O-MENU
P-CONT
TMR LED
TMR POWER
M-APL



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16
17
⚠ PCB-LCD
Z8A1
SEG21
SEG20
SEG19
SEG18
SEG17
SEG16
SEG15
SEG14
SEG13
SEG12
SEG11
SEG10
SEG9
SEG8
SEG7
SEG6
SEG5
SEG4
SEG3
SEG2
SEG1
SEG0
COM2
COM1
COM0
C8A5 Z-.01
R8B0 1K
R8A1 100K
R8A2 100K
R8A9 100K
IC8A1
M34200M4-123FP
COM2
COM1
COM0
VLC1
VLC2
VLC3
VSS
NC
COM3
AUDIO-LEVEL-L
AUDIO-LEVEL-R
HIMOCON
VREF
R8C7 33K
AVDD
AVSS
CNVSS
M/C RESET
C
VDD
XOUT
XIN
XC OUT
XC IN
P-MUTE
C8A6 Z-1μ
C8A1 Z-.01
C8A2 16V 10μ CHIP
R8A3 1M
CF8A1
C8A4 J-100 CH
C8A3 J-100 CH
LCD CS
DTR LED
BUZZER
LA(LCD SI)
LB(LCD SO)
LCD CLK
CMR POWER
D-MENU
TALLY LED
D-PWR CONT
CG RESET
PWR LED
V(PROT)
R8C6 680
R8C8 10K
R8A4 47K
S8A3
S8A4
S8A1
S8A2
S8A5
S8A7
S8A6
S8A8
AUTO
D8A2 DAP202U MA142WA
D8A1 DAP202U MA142WA
R8B2 47K
R8B3 47K
R8B1 47K
R8A6 10K
R8A7 10K
R8A8 10K
INS
IN6
PI2
PI4
PI5
PI6
PI7
LB
LA
LCD CLK
LCD CS
TALLY LED
GBATT
M/C S
PWR LED
V(PROT)
DTR LED
BUZZER
LB
PB PCB-OPERATION SUB
VR8A4 B-10K
R8C5 1.2K
Q8A2 DTC144EU UN5213
Q8A1 DTA144EU UN5113
CG RESET
D-MENU
D-PCONT
PWR LED
CMR POWER
M-APL
P-MUTE
M/C RESET
LT
MT PCB-MAIN(OPERATION)

HS-C40A
HS-C40B
HS-C40E(6/9)

1
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3
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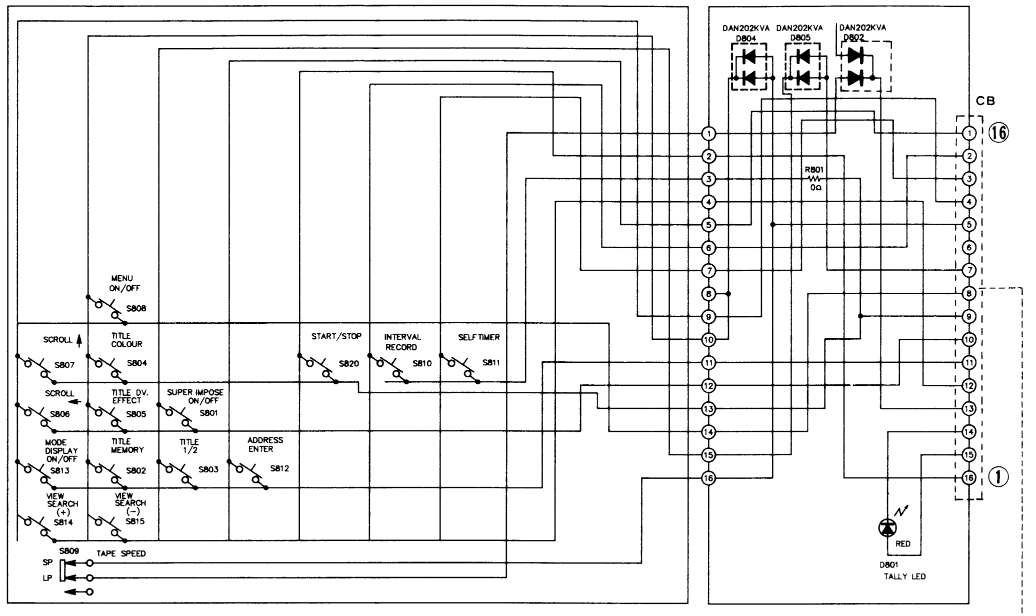
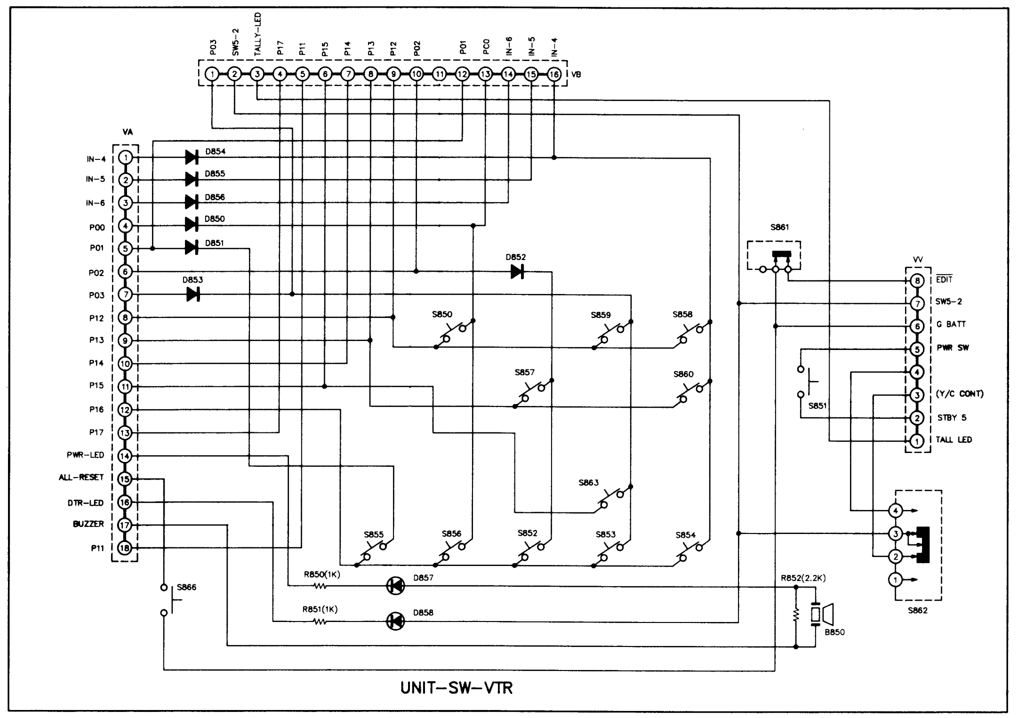
7
8
A
B
C
D
E

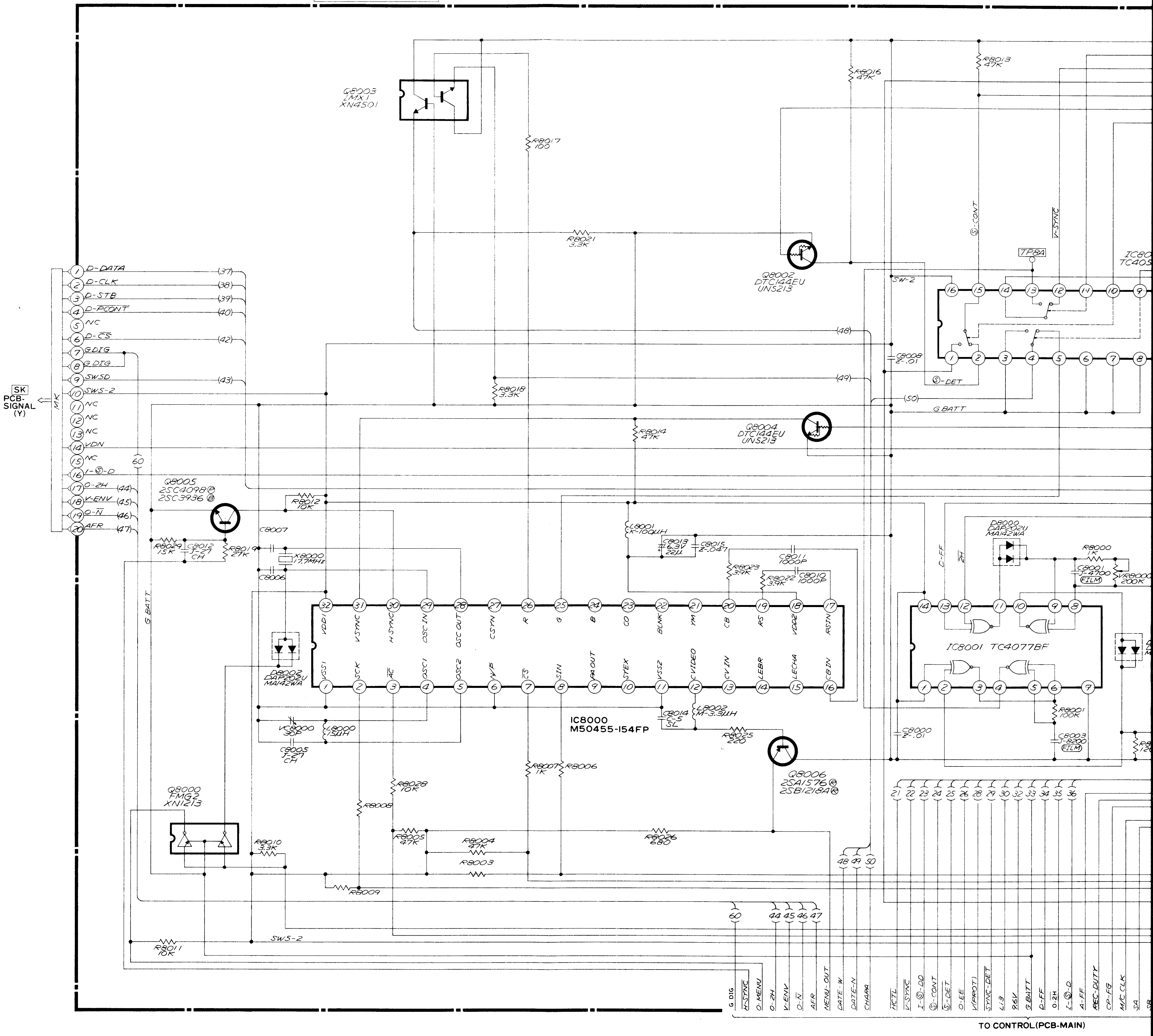
(OPERATION)⚠ PCB-MAIN


DAN202KVA
D804
DAN202KVA
D805
DAN202KVA
D802
R801
0Ω
CB
⑯
①
MENU ON/OFF
S808
SCROLL
S807
TITLE COLOUR
S804
SCROLL
S806
TITLE DV. EFFECT
S805
SUPER IMPOSE ON/OFF
S801
MODE DISPLAY ON/OFF
S813
TITLE MEMORY
S802
TITLE 1/2
S803
ADDRESS ENTER
S812
VIEW SEARCH (+)
S814
VIEW SEARCH (−)
S815
START/STOP
S820
INTERVAL RECORD
S810
SELF TIMER
S811
S809
TAPE SPEED
SP
LP
RED
D801
TALLY LED

UNIT−SW−CMR

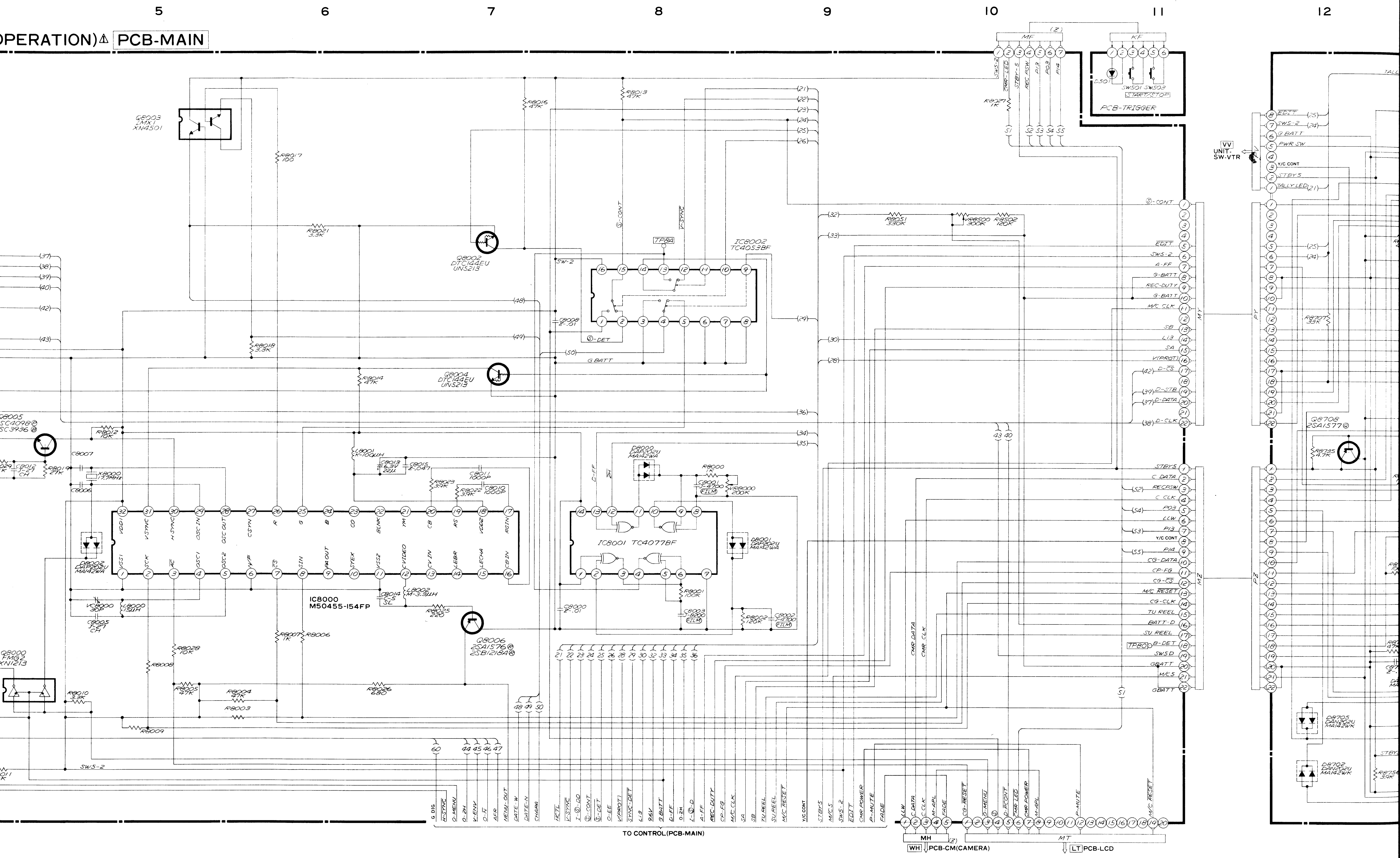

VB
P03
SWS−2
TALLY-LED
P17
P11
P15
P14
P13
P12
P02
P01
P00
IN−6
IN−5
IN−4
VA
IN−4
IN−5
IN−6
P00
P01
P02
P03
P12
P13
P14
P15
P16
P17
PWR−LED
ALL−RESET
DTR−LED
BUZZER
P11
D854
D855
D856
D850
D851
D852
D853
S850
S859
S858
S857
S860
S863
S855
S856
S852
S853
S854
S861
S851
S866
R850(1K)
D857
R851(1K)
D858
R852(2.2K)
B850
S862
VV
EDIT
SWS−2
G BATT
PWR SW
(Y/C CONT)
STBY 5
TALL LED

UNIT−SW−VTR


SK
PCB-SIGNAL
(Y)
MK
D-DATA
D-CLK
D-STB
D-PCONT
NC
D-CS
G.DIG
G.DIG
SWSD
SWS-2
NC
NC
NC
VDN
NC
1-Ⓢ-D
0-2H
V-ENV
0-N
AFR
Q8003
IMX1
XN4501
R8017
100
R8021
3.3K
Q8002
DTC144EU
UN5213
R8016
47K
R8013
47K
Ⓢ-CONT
V-SYNC
TP8A
SW-2
IC80
TC40
C8008
Z.01
Ⓢ-DET
G BATT
R8018
3.3K
R8014
47K
Q8004
DTC144EU
UN5213
Q8005
2SC4098Ⓡ
2SC3936Ⓡ
R8012
10K
R8029
15K
C8012
1-27
CH
R8019
27K
C8007
X8000
17.7MHz
C8006
L8001
K-10μH
C8013
6.3V
22μ
C8015
Z.047
C8011
1000P
R8023
3.9K
R8022
3.9K
C8010
1000P
VDD1
VSYNC
H.SYNC
OSC IN
OSC OUT
CSYN
R
G
B
CO
BLNK
YM
CB
RS
VDD2
RSTN
VSS1
SCK
AC
OSC1
OSC2
WB
CS
SIN
PA OUT
SYEX
VSS2
CVIDEO
CV IN
LEBR
LECHA
CB IN
D8002
DAP202U
MA142WA
IC8000
M50455-154FP
VC8000
30P
L8000
15μH
C8005
1-27
CH
C8014
C5
SL
L8002
M-3.3μH
R8025
220
Q8006
2SA1576Ⓡ
2SB1218AⓇ
R8007
1K
R8006
R8028
10K
R8008
R8005
47K
R8004
47K
R8003
R8026
680
Q8000
FMG2
XN1213
R8010
3.3K
R8009
R8011
10K
SWS-2
G.BATT
D8000
DAP202U
MA142WA
C-FF
2H
R8000
1K
C8001
Z.4700
FILM
VR8000
200K
IC8001 TC4077BF
R8001
100K
C8003
Z.8200
FILM
C8000
Z.01
G DIG
H-SYNC
0-MENU
0-2H
V-ENV
0-N
AFR
MENU OUT
DATE-W
DATE-N
CHARA
HCTL
V-SYNC
1-Ⓢ-DD
Ⓢ-CONT
Ⓢ-DET
0-EE
V(PROT)
SYNC-DET
L13
86V
G BATT
0-FF
0-2H
1-Ⓢ-D
A-FF
REC-DUTY
CP-FG
M/C CLK
SA

TO CONTROL(PCB-MAIN)

OPERATION)⚠ PCB-MAIN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7
8
9
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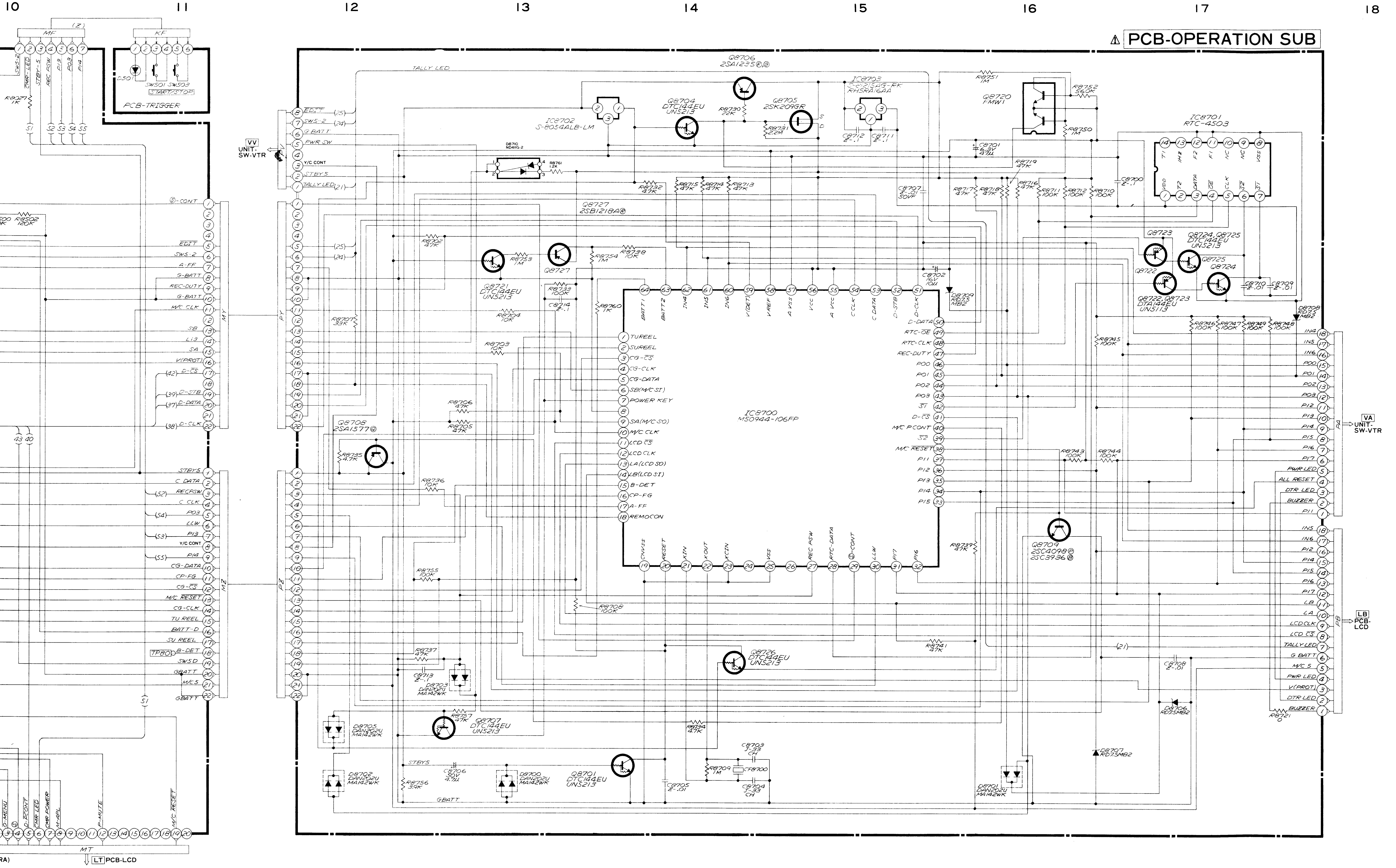
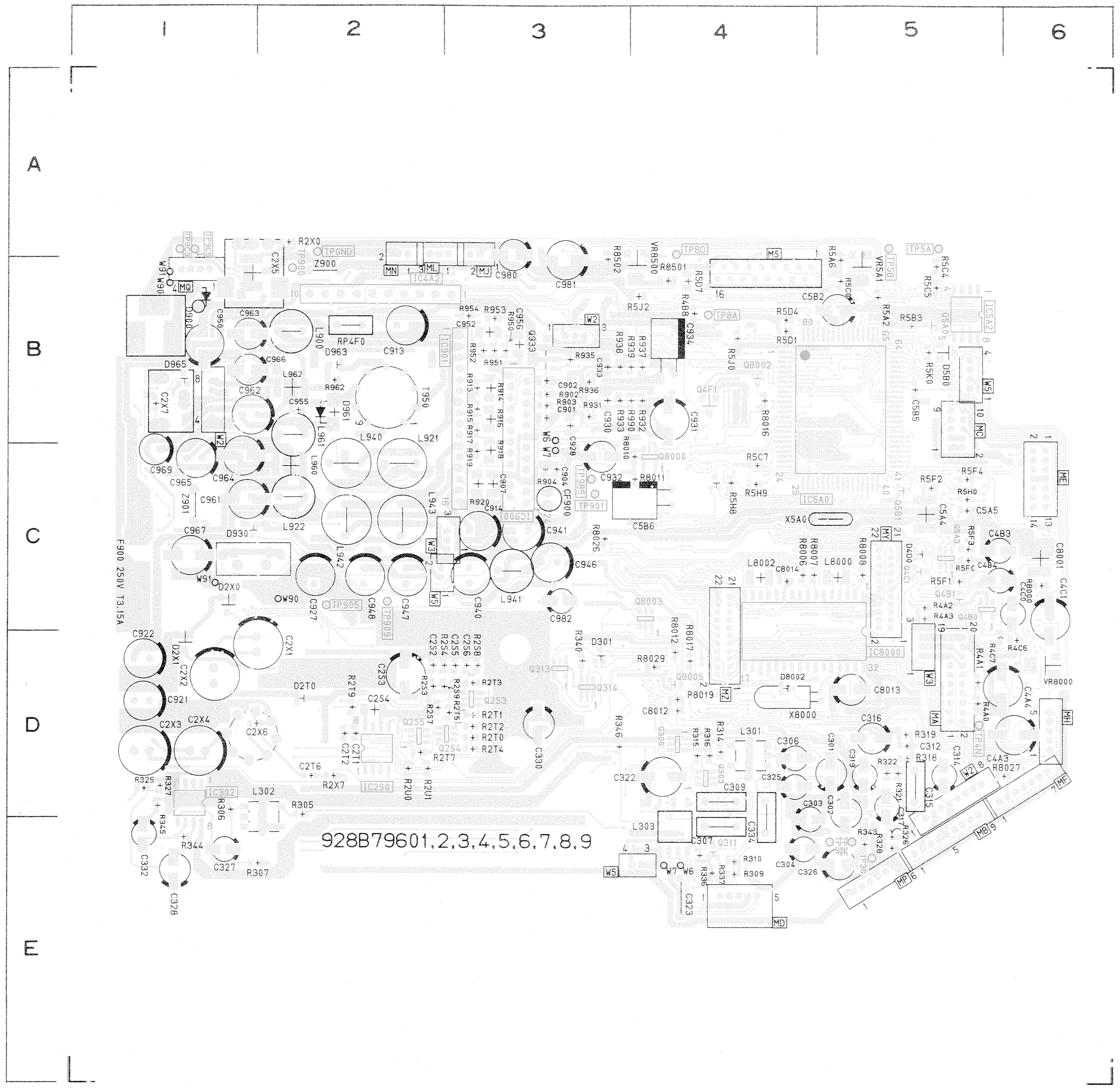
11
12
Q8003
EMX1
XN4501
R8017 100
R8021 3.3K
R8016 47K
R8013 47K
Q8002
DTC144EU
UN5213
Ⓢ-CONT
V-SYNC
TP8A
IC8002
TC4053BF
SW-2
C8008 Z-.01
Ⓢ-DET
G BATT
R8018 3.3K
R8014 47K
Q8004
DTC144EU
UN5213
Q8005
2SC4098Ⓡ
2SC3936Ⓡ
R8012 10K
C8007
X8000 17.7MHz
C8006
R8019 27K
D8002
DAP202U
MA142WA
IC8000
M50455-154FP
VDD1
VSYNC
H-SYNC
OSC IN
OSC OUT
CSYN
R
G
B
CO
BLNK
YM
CB
RS
VDD2
RSIN
VSS1
SCK
AE
OSC1
OSC2
VP
CS
SIN
PAOUT
STEX
VSS2
CVIDEO
CV IN
LEBR
LECHA
CB IN
L8001 K-100μH
C8013 6.3V 22μ
C8015 Z.047
C8011 1000P
C8010 1000P
R8023 3.9K
R8022 3.9K
C8014 CS SL
L8002 M-3.3μH
R8025 220
Q8006
2SA1576Ⓡ
2SB1218AⓇ
VC8000 30P
L8000 15μH
C8005 J-27 CH
R8028 10K
R8008
R8007 1K
R8006
R8005 47K
R8004 47K
R8003
R8026 680
R8009
R8010 3.3K
Q8000
FMG2
XN1213
SW5-2
D-FF
D8000
DAP202U
MA142WA
R8000 1K
C8001 J-4700 FILM
VR8000 200K
IC8001 TC4077BF
D8001
DAP202U
MA142WA
R8001 100K
C8003 J-8200 FILM
R8002 120K
C8002 J-4700 FILM
C8000 Z-.01
R8051 330K
VR8500 300K
R8502 120K
MF
(Z)
KF
SW5-2
CMR-LED
STBY-5
REC PSW
P13
P03
P14
R8271 1K
D501
SW501
SW503
START/STOP
PCB-TRIGGER
VV UNIT-SW-VTR
EDIT
SW5-2
G BATT
PWR SW
Y/C CONT
STBYS
TALLY LED
MY
PY
Ⓢ-CONT
4-FF
G-BATT
REC-DUTY
M/C CLK
SB
L13
SA
V(PROT)
D-CS
D-STB
D-DATA
D-CLK
R8707 33K
Q8708
2SA1577Ⓡ
R8735 4.7K
MZ
PZ
C DATA
RECPSW
C CLK
P03
LLW
P13
Y/C CONT
P14
CG-DATA
CP-FG
CG-CS
M/C RESET
CG-CLK
TU REEL
BATT-D
SU REEL
TP80
B-DET
SWSD
GBATT
M/CS
CMR DATA
CMR CLK
D8705
DAN202U
MA142WK
D8702
DAN202U
MA142WK
R8756 39K
G DIG
H-SYNC
D-MENU
D-2H
V-ENV
D-N
AER
MENU-OUT
DATE-W
DATE-N
CHARA
HCTL
V-SYNC
I-Ⓢ-DD
Ⓢ-CONT
Ⓢ-DET
D-EE
V(PROT)
SYNC-DET
L13
9.6V
Q BATT
D-FF
D-2H
I-Ⓢ-D
A-FF
REC DUTY
CP-FG
M/C CLK
SA
SB
TU REEL
SU REEL
M/C RESET
Y/C CONT
STBYS
M/CS
SW5-2
EDIT
CMR POWER
P-MUTE
FADE
TO CONTROL(PCB-MAIN)
C DATA
C CLK
M-APL
G-RESET
D-MENU
D-PCONT
CMR LED
CMR POWER
P-MUTE
M/C RESET
MH
MT
WH PCB-CM(CAMERA)
LT PCB-LCD

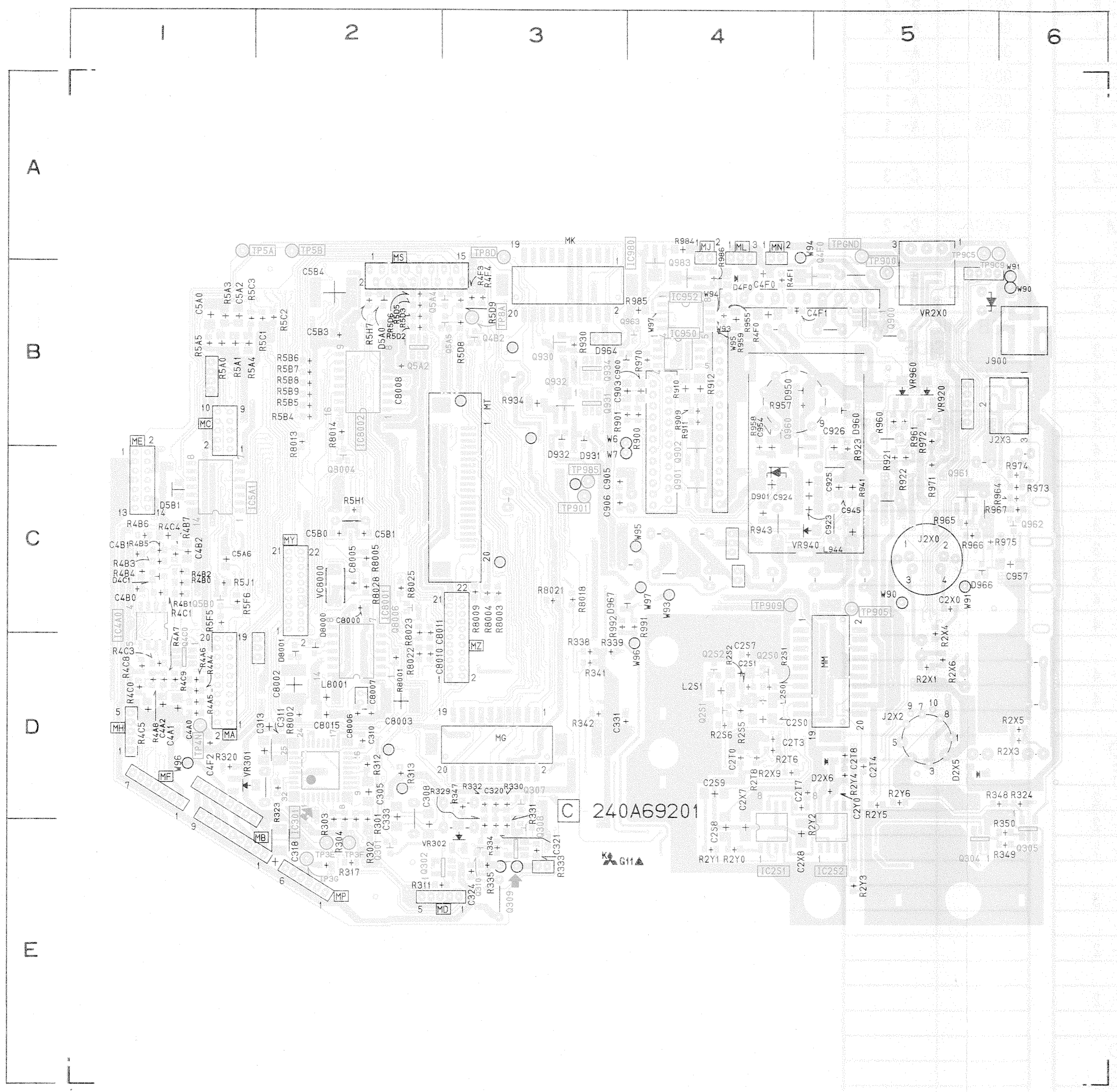
⚠ PCB-OPERATION SUB


10
11
12
13
14
15
16
17
18
MF
KF
(Z)
PCB-TRIGGER
D501
SW501 SW503
START/STOP
R8271 1K
R8500 R8502 120K
S1 S2 S3 S4 S5
VV UNIT-SW-VTR
EDIT
SWS-2
G.BATT
PWR SW
Y/C CONT
STBYS
TALLY LED
TALLY LED
D8710 ND4IIG-2
R8761 1.2K
IC8702 S-8054ALB-LM
Q8706 2SA1235Ⓔ,Ⓕ
Q8704 DTC144EU UN5213
R8730 22K
Q8705 2SK209GR
R8731 2.2M
IC8703 RH5RA16AA
C8712 Z-.1
C8711 Z-.1
R8751 1M
Q8720 FMW1
R8752 560K
R8750 1M
IC8701 RTC-4503
C8701 6.3V 47μ
R8719 47K
C8700 Z-.1
R8732 47K
R8715 47K
R8714 47K
R8713 47K
C8727 Z-.01 50V
R8717 47K
R8718 47K
R8716 47K
R8711 100K
R8712 100K
R8710 100K
Q8727 2SB1218AⓇ
R8702 47K
R8753 1M
R8754 1M
R8738 10K
Q8721 DTC144EU UN5213
R8733 100K
C8714 Z-.1
R8760 1K
R8704 10K
R8707 33K
R8703 10K
C8702 16V 10μ
D8709 RD7.5MB2
Q8723
Q8724,Q8725 DTC144EU UN5213
Q8722
Q8722,Q8723 DTA144EU UN5113
C8710 Z-.01
C8709 Z-.01
D8708 RD7.5MB2
R8746 100K
R8747 100K
R8749 100K
R8748 100K
R8745 100K
IC8700 M50944-106FP
BATT1 BATT2 IN4 IN5 IN6 V(DET) VREF AVSS VCC AVCC CCLK CDATA D-STB D-CLK
TUREEL SUREEL CG-CS CG-CLK CG-DATA SB(M/C SI) POWER KEY SA(M/C SO) M/C CLK LCD CS LCD CLK LA(LCD SO) LB(LCD SI) B-DET CP-FG A-FF REMOCON
CNVSS RESET XIN XOUT XCIN VSS REC PSW RTC-DATA Ⓢ-CONT LLW P17 P16
D-DATA RTC-OE RTC-CLK REC-DUTY P00 P01 P02 P03 ST D-CS M/C PCONT S2 M/C RESET P11 P12 P13 P14 P15
R8706 47K
R8705 47K
Q8708 2SA1577Ⓡ
R8735 4.7K
R8736 10K
R8743 100K
R8744 100K
Q8709 2SC4098Ⓡ 2SC3936Ⓡ
R8739 47K
R8755 100K
R8708 100K
R8741 47K
R8737 47K
C8713 Z-.1
D8703 DAN202U MA142WK
Q8726 DTC144EU UN5213
C8708 Z-.01
D8706 RD7.5MB2
R8721 0
D8705 DAN202U MA142WK
R8757 47K
Q8707 DTC144EU UN5213
R8734 47K
C8703 J-33 CH
R8709 1M
CF8700
C8704 J-33 CH
C8705 Z-.01
D8707 RD7.5MB2
D8702 DAN202U MA142WK
STBYS
C8706 50V 4.7μ
R8756 3.9K
D8700 DAN202U MA142WK
Q8701 DTC144EU UN5213
GBATT
D8701 DAN202U MA142WK
MY PY MZ PZ PA PB
VA UNIT-SW-VTR
LB PCB-LCD
Ⓢ-CONT EDIT SWS-2 A-FF G-BATT REC-DUTY G-BATT M/C CLK SB LI3 SA V(PROT) D-CS D-STB D-DATA D-CLK
STBYS C DATA RECPSW C CLK P03 LLW P13 Y/C CONT P14 CG-DATA CP-FG CG-CS M/C RESET CG-CLK TU REEL BATT-D SU REEL B-DET SWSD GBATT M/CS GBATT
TP801
IN4 IN5 IN6 P00 P01 P02 P03 P12 P13 P14 P15 P16 P17 PWR LED ALL RESET DTR LED BUZZER P11
IN5 IN6 P12 P14 P15 P16 P17 LB LA LCD CLK LCD CS TALLY LED G BATT M/C S PWR LED V(PROT) DTR LED BUZZER
Ⓢ MENU PCONT MR LED MR POWER M-APL P-MUTE M/C RESET
MT
LT PCB-LCD
43 40
(25) (24) (21) (42) (39) (37) (38) (52) (54) (53) (55)

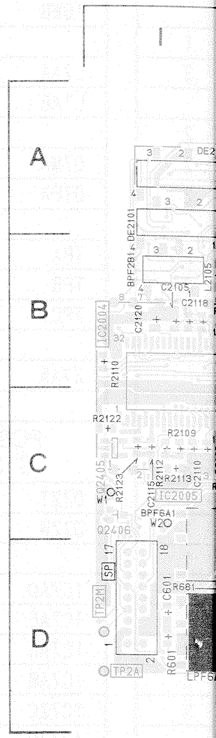
PCB-MAIN(C SIDE)


1
2
3
4
5
6
A
B
C
D
E
928B79601,2,3,4,5,6,7,8,9
F900 250V T3.15A

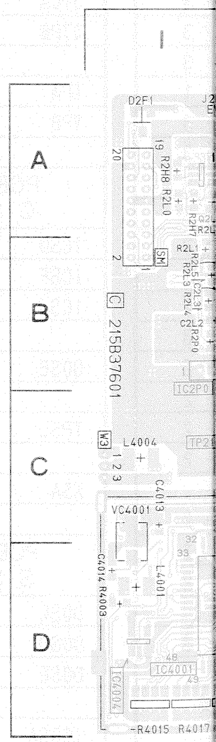
PCB-MAIN(S SIDE)

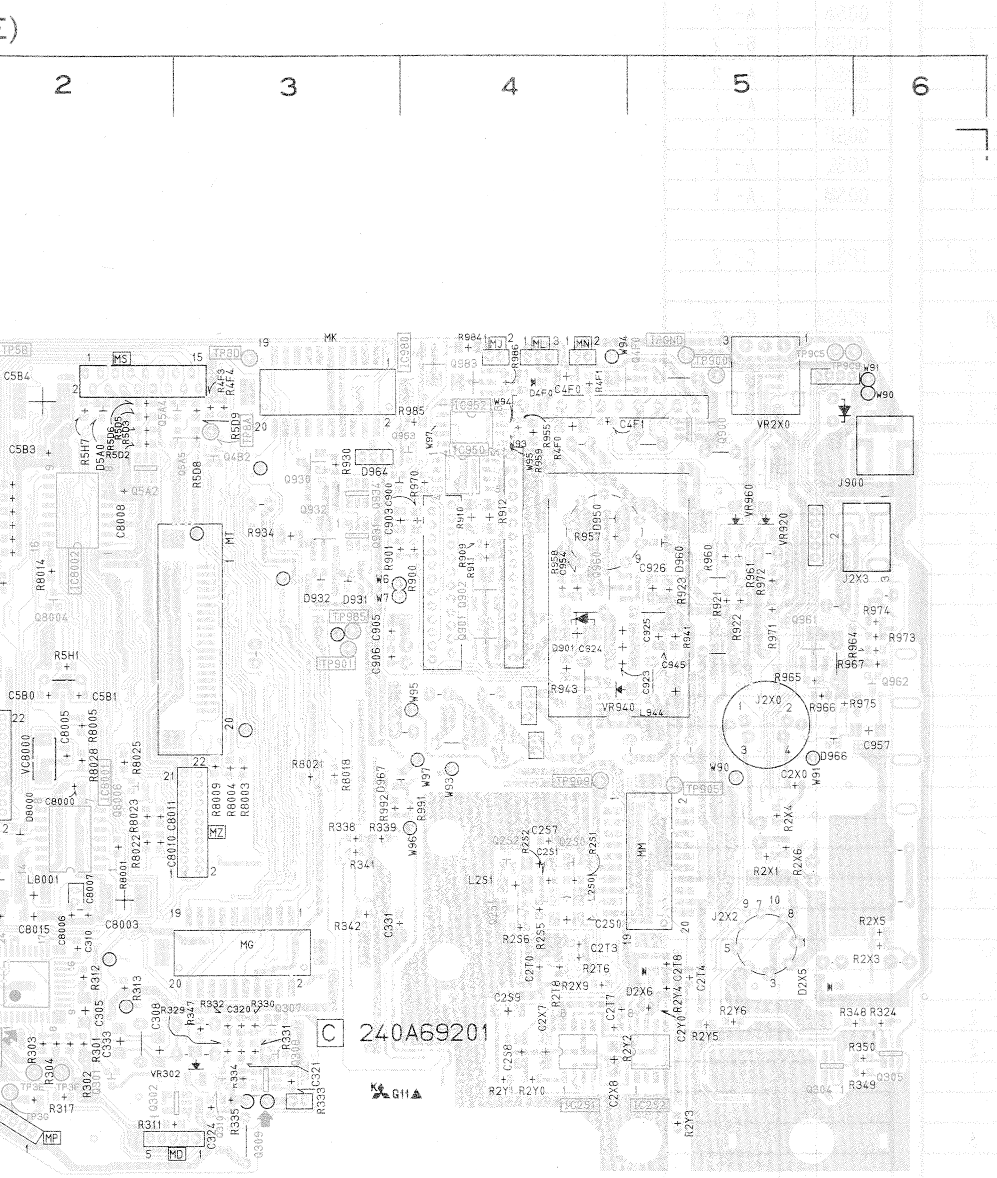

1
2
3
4
5
6
A
B
C
D
E
240A69201

PCB-SIG

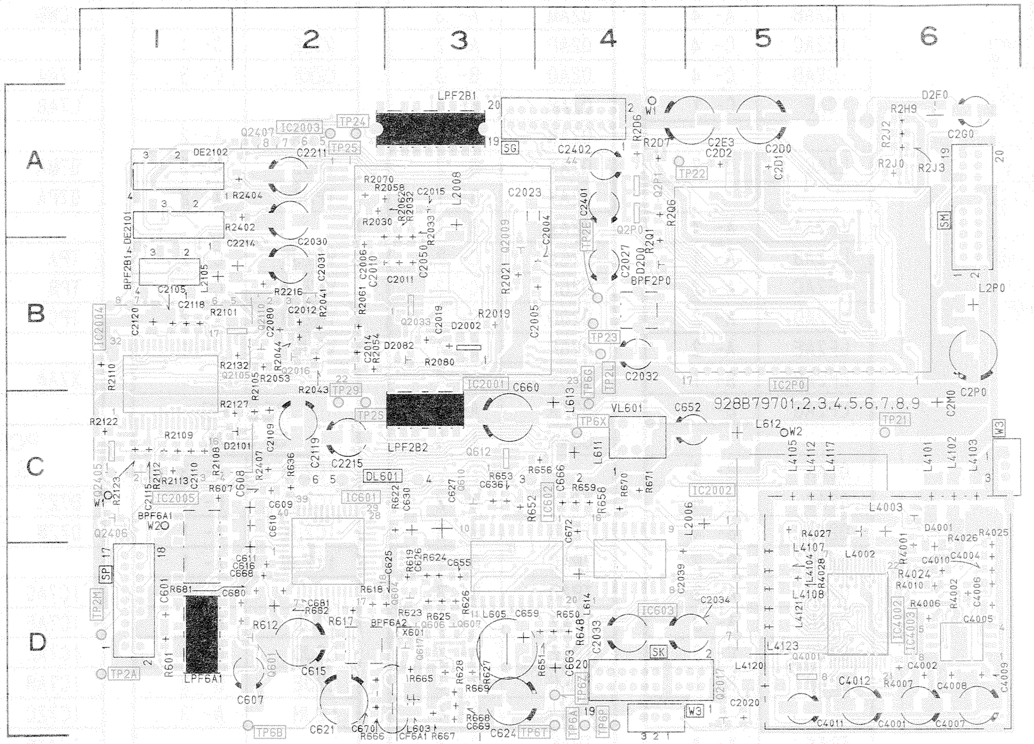


PCB-SIG

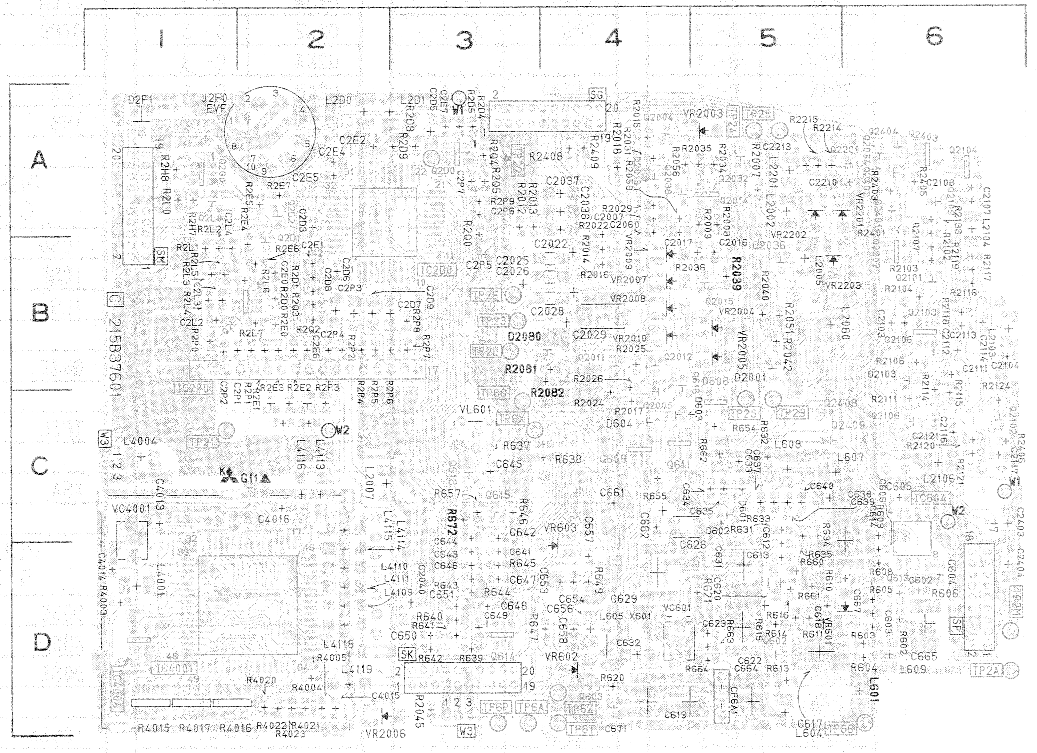

A
B
C
D
215B37601


E)
2
3
4
5
6
C 240A69201
G11▲

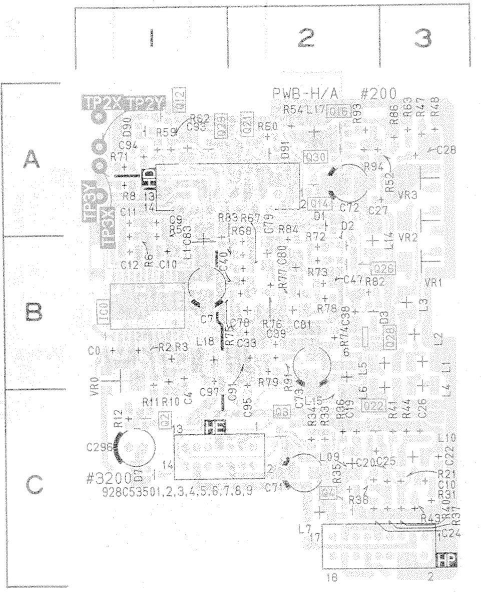
PCB-SIGNAL(C SIDE)


1
2
3
4
5
6
A
B
C
D
928B79701,2,3,4,5,6,7,8,9
LPF2B1
LPF2B2
LPF6A1

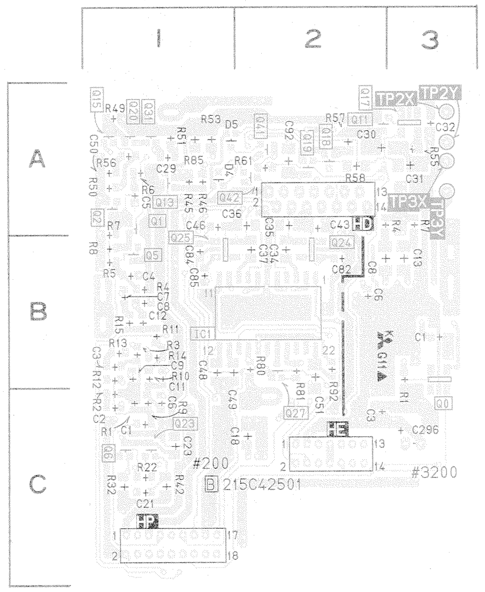
PCB-SIGNAL(S SIDE)


1
2
3
4
5
6
A
B
C
D
C 215B37601
G11▲

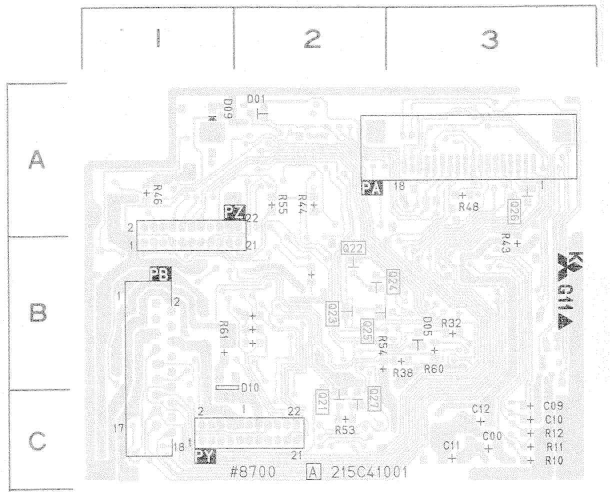
PCB-HEAD-AMP(C SIDE)


1
2
3
A
B
C
PWB-H/A #200
#3200
928C53601,2,3,4,5,6,7,8,9

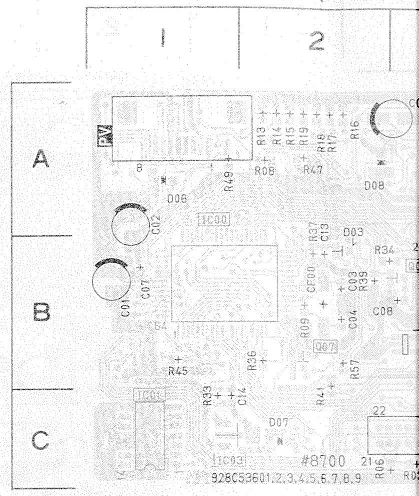
PCB-HEAD-AMP(S SIDE)


1
2
3
A
B
C
#200
215C42501
#3200
G11▲

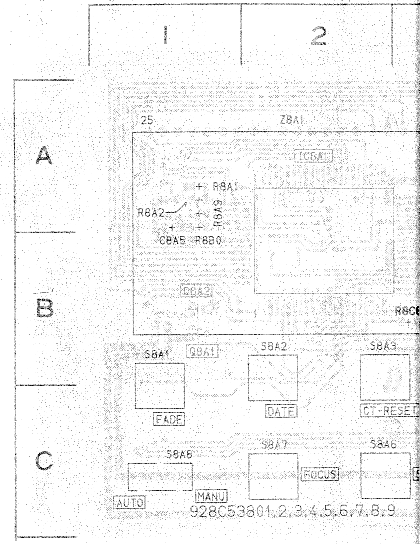
PCB-OPE-SUB(C SIDE)


1
2
3
A
B
C
#8700
A 215C41001
G11▲

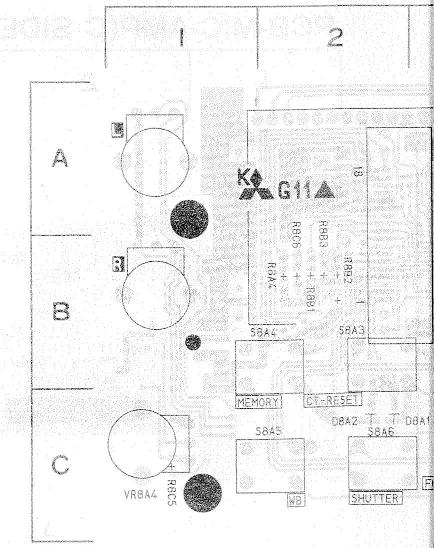
PCB-OPE-SUB(S SIDE


1
2
A
B
C
#8700
928C53601,2,3,4,5,6,7,8,9

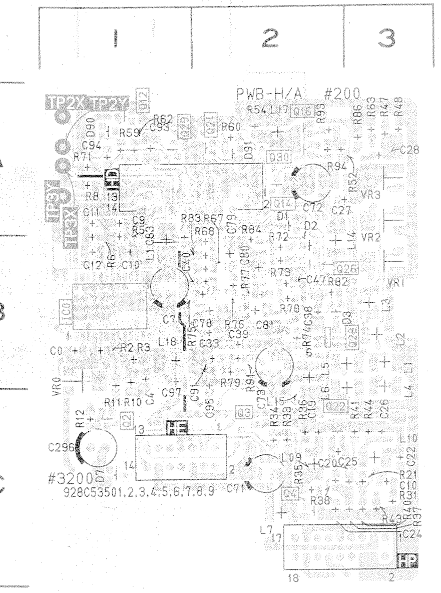
PCB-LCD(C SIDE)


1
2
A
B
C
FADE
DATE
CT-RESET
AUTO
MANU
FOCUS
928C53801,2,3,4,5,6,7,8,9

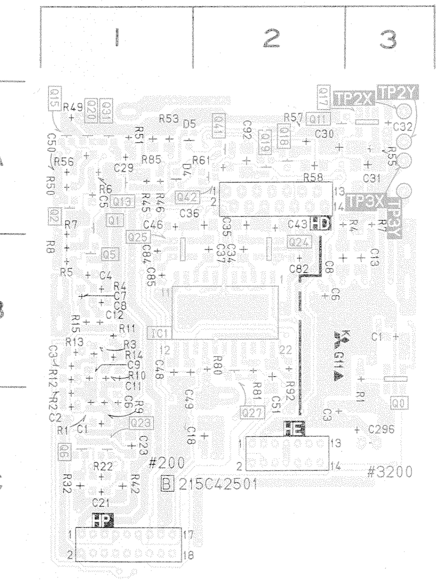
PCB-LCD(S SIDE)


1
2
A
B
C
L
R
G11▲
MEMORY
CT-RESET
SHUTTER
VR8A4

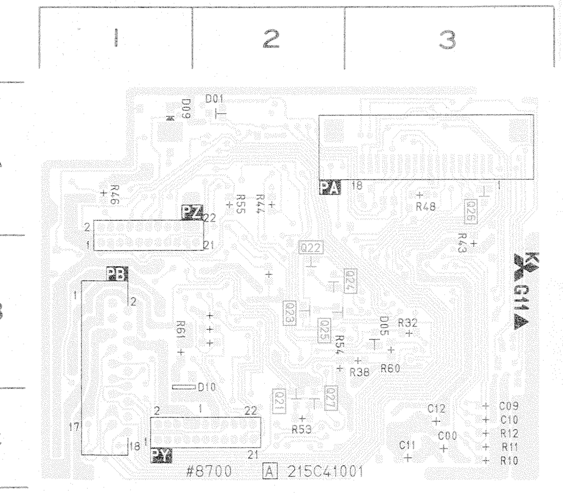
PCB-HEAD-AMP(C SIDE)



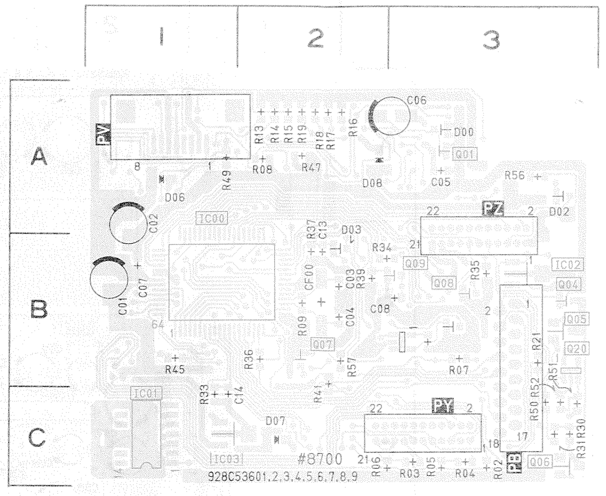
PCB-HEAD-AMP(S SIDE)



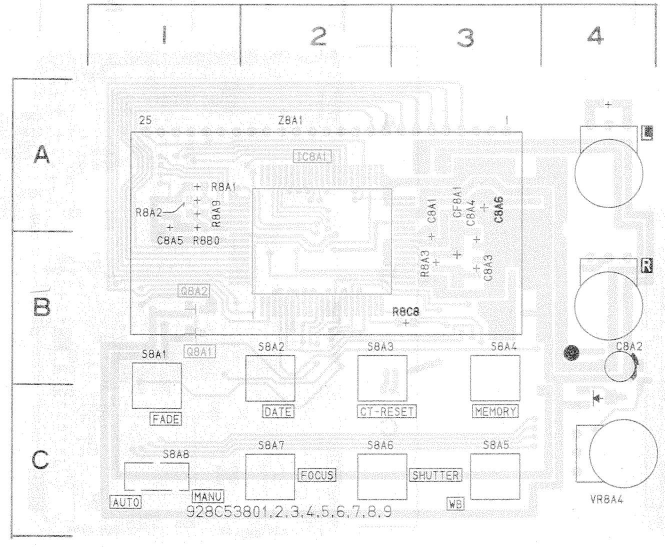
PCB-OPE-SUB(C SIDE)



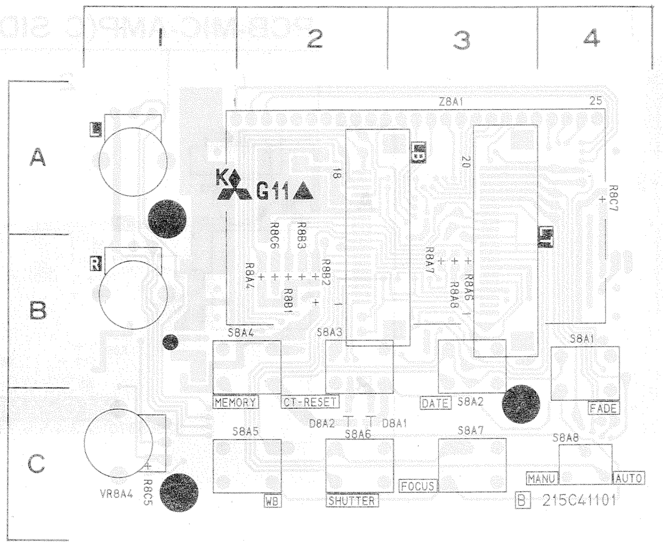
PCB-OPE-SUB(S SIDE)



PCB-LCD(C SIDE)



PCB-LCD(S SIDE)



SYMBOL NO.	ADDRESS
PCB MAIN C SIDE	
CF900	C- 3
D2T0	D- 2
D2X0	C- 1
D2X1	D- 1
D301	D- 3
D4D0	C- 5
D5B0	B- 5
D8002	D- 4
D900	A- 1
D930	C- 1
D961	B- 2
D963	B- 2
D965	B- 1
IC2S0	D- 2
IC302	D- 1
IC4A2	B- 2
IC5A0	C- 4
IC5A2	B- 5
IC8000	D- 5
IC900	C- 3
IC901	B- 2
L301	D- 4
L302	D- 2
L303	D- 4
L8000	C- 5
L8002	C- 4
L900	B- 2
L921	B- 2
L922	C- 2
L940	B- 2
L941	C- 3
L942	C- 2
L943	C- 2
L960	C- 2
L961	B- 2
L962	B- 2
Q2S3	D- 3
Q2S4	D- 3
Q2S5	D- 2
Q303	D- 4
Q306	D- 4
Q311	E- 4
Q313	D- 3
Q314	D- 3
Q4B0	C- 5
Q4B1	C- 5
Q4C1	C- 5
Q4F1	B- 4
Q5A0	B- 5
Q5A3	C- 5
Q5B1	C- 5
Q8000	C- 4
Q8002	B- 4
Q8003	C- 4

SYMBOL NO.	ADDRESS
Q8005	D- 4
Q933	B- 3
TP3E	E- 5
TP3F	E- 5
TP3G	E- 5
TP4N	D- 5
TP5A	A- 5
TP5B	A- 5
TP8A	B- 4
TP8D	A- 4
TP900	A- 2
TP901	C- 3
TP905	C- 2
TP909	C- 2
TP985	C- 3
TP9C5	A- 1
TP9C9	A- 1
TPGND	A- 2
VR5A1	A- 5
VR8000	D- 5
VR8500	A- 4
X5A0	C- 4
X8000	D- 4
Z900	A- 2
Z901	C- 1
PCB MAIN S SIDE	
D2X5	D- 5
D2X6	D- 5
D4C1	C- 1
D4F0	B- 4
D5A0	B- 2
D5B1	C- 1
D8000	C- 2
D8001	D- 2
D901	C- 4
D931	B- 3
D932	B- 3
D950	B- 4
D960	B- 5
D964	B- 3
D966	C- 5
D967	C- 3
IC2S1	E- 4
IC2S2	E- 5
IC301	D- 2
IC4A0	C- 1
IC5A1	C- 1
IC8001	C- 2
IC8002	B- 2
IC950	B- 4
IC952	B- 4
IC980	A- 3

SYMBOL NO.	ADDRESS
L2S0	D- 4
L2S1	D- 4
L8001	D- 2
L944	C- 5
Q2S0	D- 4
Q2S1	D- 4
Q2S2	D- 4
Q301	E- 2
Q302	E- 2
Q304	E- 5
Q305	E- 5
Q307	D- 3
Q308	D- 3
Q309	E- 3
Q310	E- 3
Q4B2	B- 3
Q4C0	C- 1
Q4F0	A- 4
Q5A2	B- 2
Q5A4	B- 2
Q5A5	B- 2
Q5B0	C- 1
Q8004	C- 2
Q8006	C- 2
Q900	B- 5
Q901	C- 4
Q902	B- 4
Q930	B- 3
Q931	B- 3
Q932	B- 3
Q934	B- 3
Q960	B- 4
Q961	C- 5
Q962	C- 5
Q963	B- 3
Q983	A- 4
TP3E	E- 2
TP3F	E- 2
TP3G	E- 2
TP4N	D- 1
TP5A	A- 1
TP5B	A- 2
TP8A	B- 3
TP8D	A- 3
TP900	A- 5
TP901	C- 3
TP905	E- 5
TP909	C- 4
TP985	C- 3
TP9C5	A- 5
TP9C9	A- 5
TPGND	A- 5
VC8000	C- 2
VR2X0	B- 5
VR301	D- 1
VR302	E- 2

SYMBOL NO.	ADDRESS
VR920	B- 5
VR940	C- 4
VR960	B- 5
PCB SISNAL C SIDE	
BPF2B1	B- 1
BPF2P0	B- 4
BPF6A1	C- 1
BPF6A2	D- 3
CF6A1	D- 3
D2002	B- 3
D2082	B- 3
D2101	C- 2
D2D0	B- 4
D2F0	A- 6
D4001	C- 6
DE2101	A- 1
DE2102	A- 1
DL601	C- 2
IC2001	B- 3
IC2002	C- 5
IC2003	A- 2
IC2004	B- 1
IC2005	C- 1
IC2P0	B- 5
IC4002	D- 6
IC4003	D- 6
IC601	C- 2
IC602	C- 4
IC603	D- 4
L2006	C- 5
L2008	A- 3
L2105	B- 1
L2P0	B- 6
L4002	D- 6
L4003	C- 6
L4101	C- 6
L4102	C- 6
L4103	C- 6
L4104	D- 5
L4105	C- 5
L4107	D- 5
L4108	D- 5
L4112	C- 5
L4117	C- 5
L4120	D- 5
L4121	D- 5
L4123	D- 5
L603	D- 3
L605	D- 3
L611	C- 4
L612	C- 5
L613	C- 4

SYMBOL NO.	ADDRESS
L614	D- 4
LPF2B1	A- 3
LPF2B2	C- 3
LPF6A1	D- 1
Q2009	A- 3
Q2016	B- 2
Q2017	D- 5
Q2033	B- 3
Q2105	B- 2
Q2110	B- 2
Q2405	C- 1
Q2406	C- 1
Q2407	A- 2
Q2P0	A- 4
Q2P1	A- 4
Q4001	D- 5
Q601	D- 2
Q604	D- 3
Q606	D- 3
Q607	D- 3
Q610	C- 3
Q612	C- 3
Q617	D- 3
TP21	C- 6
TP22	A- 4
TP23	B- 4
TP24	A- 2
TP25	A- 2
TP29	B- 2
TP2A	D- 7
TP2E	B- 1
TP2L	B- 4
TP2M	D- 1
TP2S	C- 2
TP6A	D- 4
TP6B	D- 2
TP6G	B- 4
TP6P	D- 4
TP6T	E- 4
TP6X	C- 4
TP6Z	D- 4
VL601	C- 4
X601	D- 3
PCB SISNAL S SIDE	
CF6A1	D- 5
D2001	B- 5
D2080	B- 3
D2103	B- 6
D2F1	A- 6
D601	C- 5
D602	C- 5
D603	C- 4

SYMBOL NO.	ADDRESS
D604	C- 3
IC2D0	B- 3
IC2P0	C- 1
IC4001	D- 1
IC4004	D- 1
IC604	C- 6
L2002	A- 5
L2005	B- 5
L2007	C- 2
L2080	B- 5
L2103	B- 6
L2104	A- 6
L2106	C- 6
L2201	A- 5
L2D0	A- 2
L2D1	A- 3
L4001	D- 1
L4004	C- 1
L4109	D- 3
L4110	D- 3
L4111	D- 3
L4113	C- 2
L4114	D- 3
L4115	C- 2
L4116	C- 2
L4118	D- 2
L4119	D- 2
L601	D- 6
L604	D- 5
L605	D- 4
L607	C- 6
L608	C- 5
L609	D- 6
Q2004	A- 4
Q2005	C- 4
Q2011	B- 4
Q2012	B- 4
Q2013	A- 4
Q2014	A- 5
Q2015	B- 5
Q2032	A- 5
Q2034	A- 5
Q2036	B- 5
Q2038	A- 4
Q2101	B- 6
Q2102	C- 6
Q2103	B- 6
Q2104	A- 6
Q2106	C- 6
Q2109	A- 6
Q2201	A- 5
Q2202	B- 6
Q2401	A- 6
Q2402	A- 6
Q2403	A- 6
Q2404	A- 6
Q2408	C- 5

SYMBOL NO.	ADDRESS
Q2409	C- 5
Q2D0	A- 3
Q2D1	B- 2
Q2D2	A- 2
Q2G0	A- 1
Q2L0	A- 1
Q2L1	B- 1
Q602	D- 5
Q603	D- 4
Q608	B- 5
Q609	C- 4
Q611	C- 4
Q613	D- 6
Q614	D- 3
Q615	C- 3
Q616	B- 4
Q618	C- 3
TP21	C- 1
TP22	A- 3
TP23	B- 3
TP24	A- 5
TP25	A- 5
TP29	C- 5
TP2A	D- 6
TP2E	B- 3
TP2L	B- 3
TP2M	D- 6
TP2S	C- 5
TP6A	D- 3
TP6B	D- 6
TP6G	C- 3
TP6P	D- 3
TP6T	D- 4
TP6X	C- 3
TP6Z	D- 4
VC4001	C- 1
VC601	D- 4
VR2003	A- 5
VR2004	B- 5
VR2005	B- 5
VR2006	D- 2
VR2007	B- 4
VR2008	B- 4
VR2009	B- 4
VR2010	B- 4
VR2201	A- 6
VR2202	A- 5
VR2203	B- 5
VR601	D- 5
VR602	D- 4
VR603	C- 4
X601	D- 4

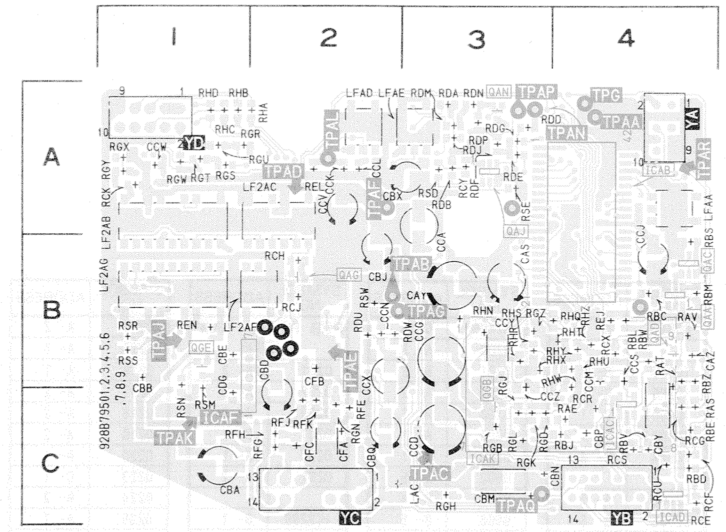
SYMBOL NO.	ADDRESS
PCB HEAD - AMP C SIDE	
D201	A- 2
D202	A- 2
D203	B- 3
D207	C- 1
D290	A- 1
D291	A- 2
IC3200	B- 1
L201	B- 3
L202	B- 3
L203	B- 3
L204	B- 4
L205	B- 2
L206	C- 2
L207	C- 2
L209	C- 2
L210	C- 3
L214	B- 3
L215	C- 2
L217	A- 2
L218	B- 1
L3201	B- 1
Q203	C- 2
Q204	C- 2
Q212	A- 1
Q214	A- 2
Q216	A- 2
Q221	A- 2
Q222	C- 2
Q226	B- 3
Q228	B- 3
Q229	A- 1
Q230	A- 2
Q3202	C- 1
TP2X	A- 1
TP2Y	A- 1
TP3X	A- 1
TP3Y	A- 1
VR201	B- 3
VR202	A- 3
VR203	A- 3
VR3200	B- 1
PCB HEAD - AMP S SIDE	
D204	A- 1
D205	A- 1
IC201	B- 1
Q201	A- 1
Q202	A- 1
Q205	B- 1
Q206	C- 1

SYMBOL NO.	ADDRESS
Q211	A- 2
Q213	A- 1
Q215	A- 1
Q217	A- 2
Q218	A- 2
Q219	A- 2
Q220	A- 1
Q223	C- 1
Q224	B- 2
Q225	A- 1
Q227	C- 2
Q231	A- 1
Q241	A- 2
Q242	A- 1
Q3200	C- 3
TP2X	A- 3
TP2Y	A- 3
TP3X	A- 3
TP3Y	B- 3
PCB OPE - SUB C SIDE	
CF8700	B- 2
D8700	A- 3
D8702	A- 3
D8703	A- 2
D8706	A- 1
D8707	C- 2
D8708	A- 2
IC8700	A- 1
IC8701	C- 1
IC8702	B- 3
IC8703	C- 1
Q8701	A- 3
Q8704	B- 3
Q8705	B- 3
Q8706	C- 3
Q8707	B- 2
Q8708	B- 3
Q8709	B- 3
Q8720	B- 3
PCB OPE - SUB S SIDE	
D8701	A- 2
D8705	B- 3
D8709	A- 1
D8710	C- 1
Q8721	C- 2
Q8722	B- 2
Q8723	B- 2
Q8724	B- 2
Q8725	B- 2
Q8726	A- 3
Q8727	C- 2

SYMBOL NO.	ADDRESS
PCB LCD C SIDE	
CF8A1	A- 3
IC8A1	A- 2
Q8A1	B- 1
Q8A2	B- 1
VR8A4	C- 4
Z8A1	A- 2
PCB LCD S SIDE	
D8A1	C- 3
D8A2	C- 2
VR8A4	C- 1

HS-C40A
HS-C40B
HS-C40E(7/9)

PCB-PC(C SIDE)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C
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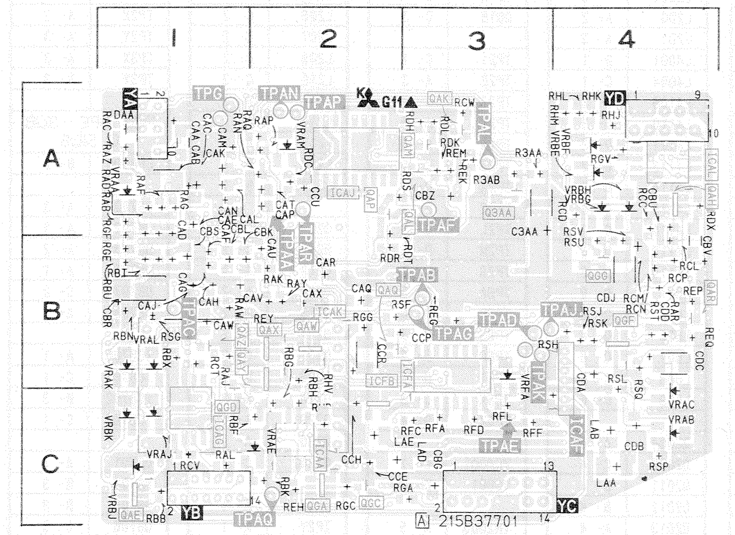
PCB-PC(S SIDE)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A
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C
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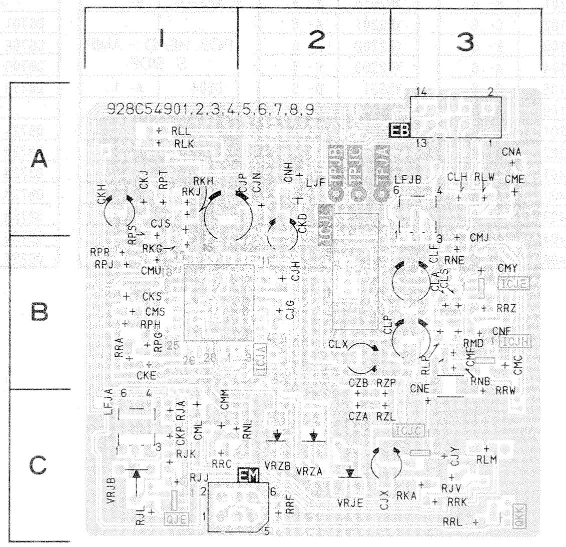
PCB-EC(C SIDE)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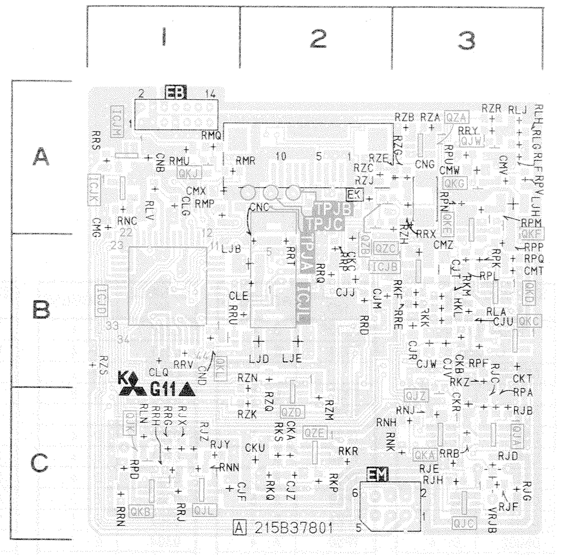
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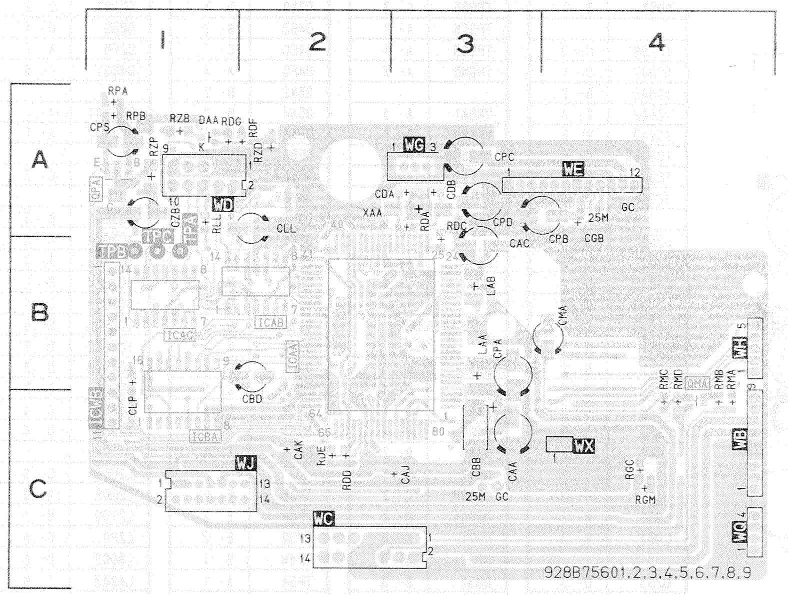
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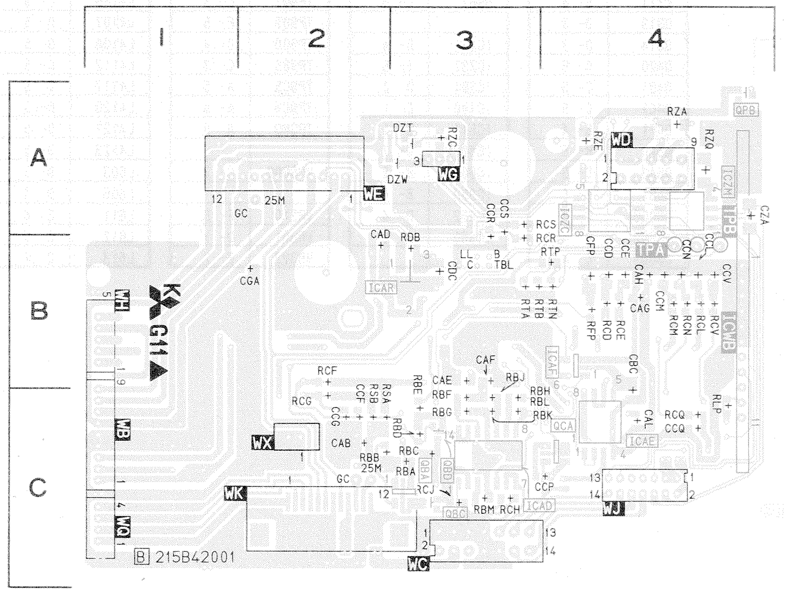
PCB-CM(S SIDE)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3
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A
B
C
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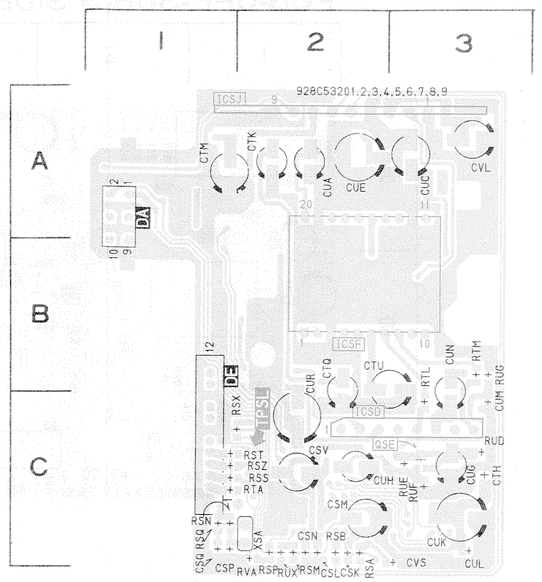
PCB-SD(C SIDE)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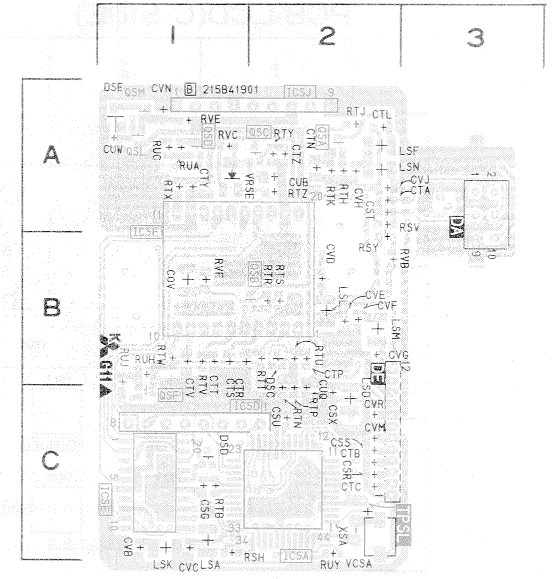
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A
B
C
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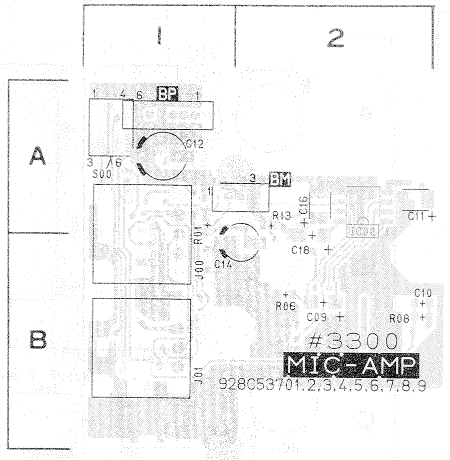
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B
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MIC-AMP
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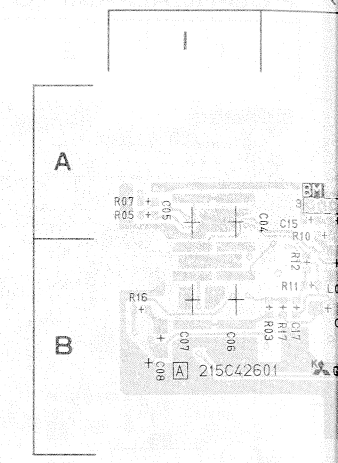
PCB-MIC-AMP(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B
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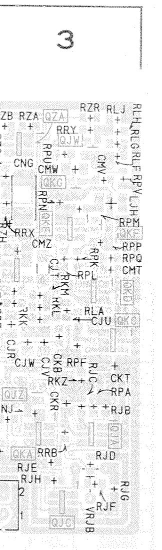

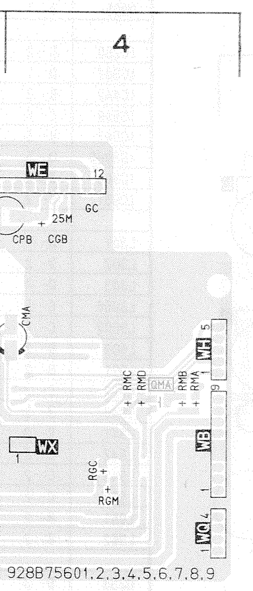

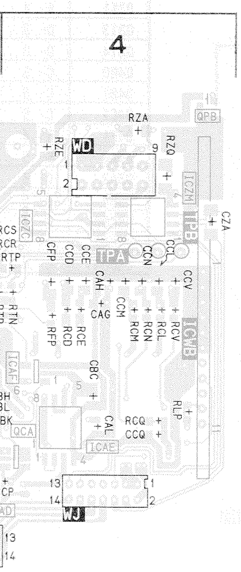

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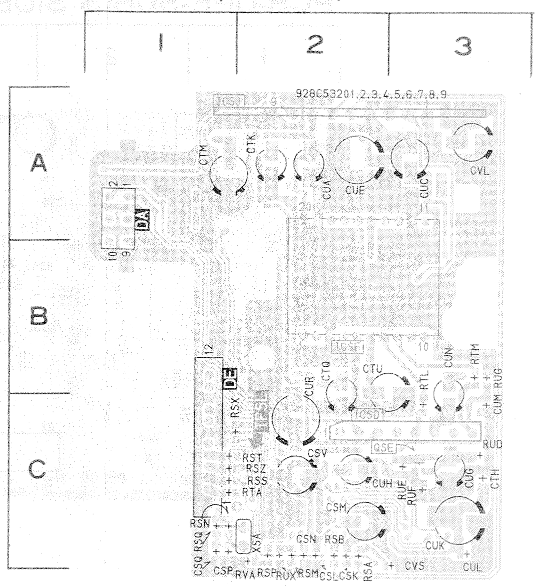

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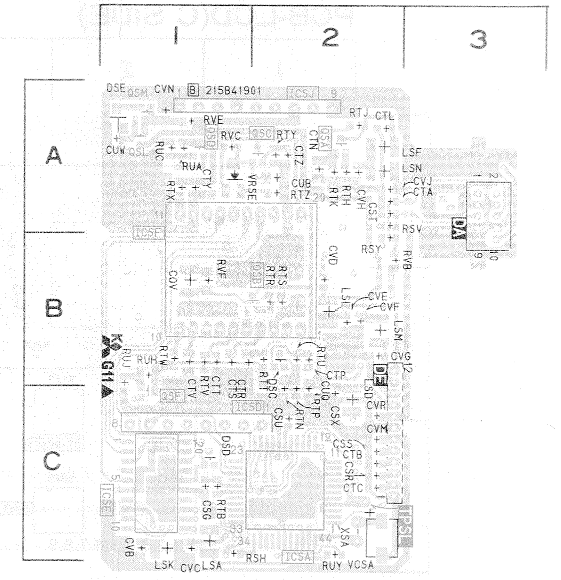

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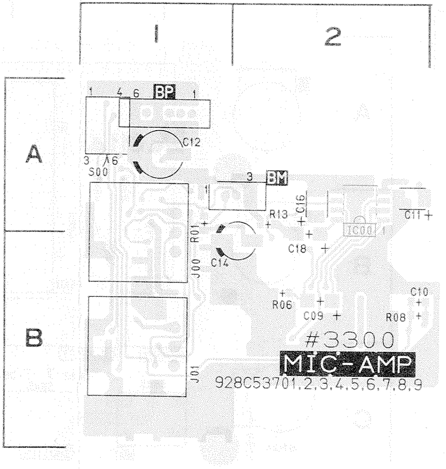
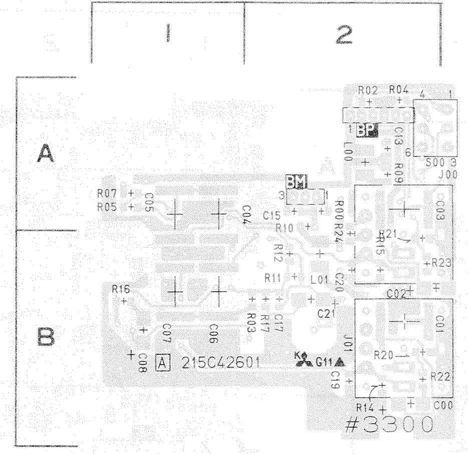


PCB-MIC-AMP(S SIDE)



SYMBOL NO.	ADDRESS
PCB PC C SIDE	
IC2AB	A- 4
IC2AC	C- 4
IC2AD	C- 4
ICAF	C- 1
L2AC	C- 3
LF2AA	A- 4
LF2AB	A- 1
LF2AC	A- 2
LF2AD	A- 2
LF2AE	A- 2
LF2AF	B- 1
LF2AG	B- 1
Q2AA	B- 4
Q2AC	B- 4
Q2AD	B- 4
Q2AG	B- 2
Q2AJ	A- 3
Q2AN	A- 3
Q2GB	C- 3
Q2GE	B- 1
TPAA	A- 4
TPAB	B- 3
TPAC	C- 3
TPAD	A- 2
TPAE	B- 2
TPAF	A- 2
TPAG	B- 3
TPAJ	B- 1
TPAK	C- 1
TPAL	A- 2
TPAN	A- 4
TPAP	A- 3
TPAQ	C- 3
TPAR	A- 4
TPG	A- 4
PCB PC S SIDE	
D2AA	A- 1
IC2AA	C- 2
IC2AG	C- 1
IC2AJ	A- 2
IC2AL	A- 4
IC5FA	B- 3
IC5FB	B- 2
L2AA	C- 4
L2AB	C- 4
L2AD	C- 3
L2AE	C- 2
Q2AE	C- 1
Q2AH	A- 4

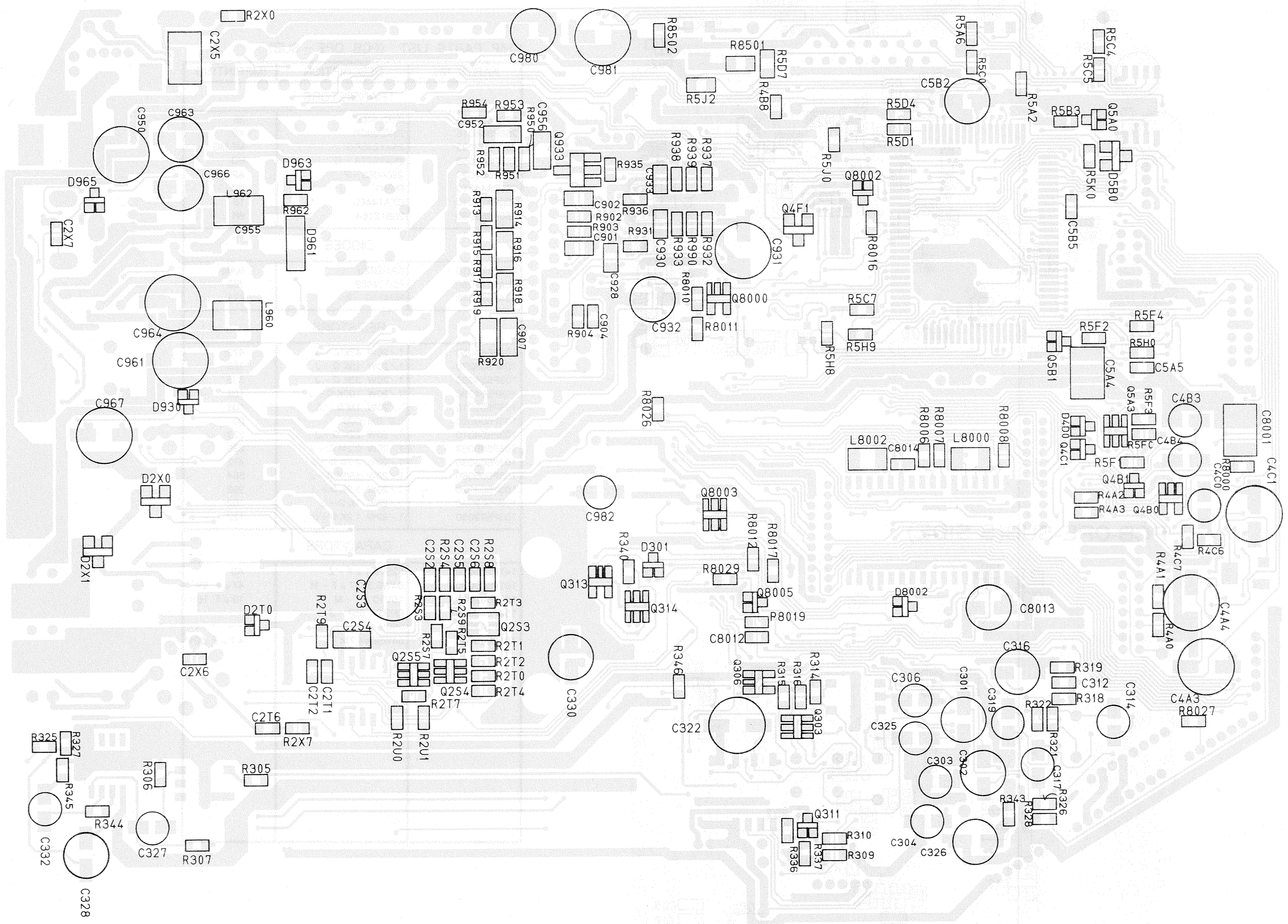
SYMBOL NO.	ADDRESS
Q2AK	A- 3
Q2AL	A- 3
Q2AM	A- 3
Q2AP	A- 2
Q2AQ	B- 2
Q2AR	B- 4
Q2AW	B- 2
Q2AX	B- 2
Q2AY	B- 1
Q2AZ	B- 1
Q2GA	C- 2
Q2GC	C- 2
Q2GD	C- 1
Q2GF	B- 4
Q2GG	B- 4
Q3AA	A- 3
Q3AA	A- 3
TPAA	B- 2
TPAB	B- 3
TPAC	B- 1
TPAD	B- 3
TPAE	C- 3
TPAF	A- 3
TPAG	B- 3
TPAJ	B- 4
TPAK	C- 3
TPAL	A- 3
TPAN	A- 2
TPAP	A- 2
TPAQ	C- 2
TPAR	B- 2
TPG	A- 1
VR2AA	A- 1
VR2AB	C- 4
VR2AC	C- 4
VR2AE	C- 2
VR2AJ	C- 1
VR2AK	B- 1
VR2AL	B- 1
VR2AM	A- 2
VR2BE	A- 4
VR2BF	A- 4
VR2BG	A- 4
VR2BH	A- 4
VR2BJ	C- 1
VR2BK	C- 1
VR5FA	B- 3
PCB EC C SIDE	
IC2JA	B- 2
IC2JC	C- 3
IC2JE	B- 3
IC2JH	B- 3
ICJL	A- 2
L2JF	A- 2

SYMBOL NO.	ADDRESS
LF2JA	C- 1
LF2JB	A- 3
Q2JE	C- 1
Q2KK	C- 3
TPJA	A- 2
TPJB	A- 2
TPJC	A- 2
VR2JE	C- 2
VR2ZA	C- 2
VR2ZB	C- 2
VRJB	C- 1
PCB EC S SIDE	
IC2JB	B- 3
IC2JD	B- 1
IC2JK	A- 1
IC2JM	A- 1
L2JB	B- 1
L2JD	B- 2
L2JE	B- 2
L2JH	A- 3
Q2JA	C- 3
Q2JC	C- 3
Q2JK	C- 1
Q2JL	C- 1
Q2JW	A- 3
Q2JZ	C- 3
Q2KA	C- 3
Q2KB	C- 1
Q2KC	B- 3
Q2KD	B- 3
Q2KE	A- 3
Q2KF	A- 3
Q2KG	A- 3
Q2KJ	A- 1
Q2KL	B- 1
Q2ZA	A- 3
Q2ZB	B- 2
Q2ZC	B- 2
Q2ZD	C- 2
Q2ZE	C- 2
TPJA	B- 2
TPJB	A- 2
TPJC	A- 2
VRJB	C- 3
PCB CM C SIDE	
D7AA	A- 1
IC7AA	B- 2
IC7AB	B- 2

SYMBOL NO.	ADDRESS
IC7AC	B- 1
IC7BA	C- 1
ICWB	C- 1
L7AA	B- 3
L7AB	B- 3
Q7MA	C- 4
Q7PA	A- 1
TPA	B- 1
TPB	B- 1
TPC	B- 1
X7AA	A- 2
PCB CM S SIDE	
D7ZT	A- 3
D7ZW	A- 3
IC7AD	C- 3
IC7AE	C- 4
IC7AF	B- 4
IC7AR	B- 3
IC7ZC	A- 4
IC7ZM	A- 4
Q7BA	C- 3
Q7BC	C- 3
Q7BD	C- 3
Q7CA	C- 4
Q7PB	A- 4
TPA	B- 4
TPB	B- 4
PCB SD C SIDE	
ICSD	C- 2
ICSF	B- 2
ICSJ	A- 1
Q0SE	C- 3
TPSL	B- 2
XSA	C- 2
PCB SD S SIDE	
D0SC	B- 2
D0SD	C- 1
D0SE	A- 1
IC0SA	C- 2
IC0SE	C- 1
L0SA	C- 1
L0SD	C- 1

SYMBOL NO.	ADDRESS
L0SF	A- 3
L0SK	C- 1
L0SL	B- 2
L0SM	B- 2
L0SN	A- 3
Q0SA	A- 2
Q0SB	B- 2
Q0SC	A- 2
Q0SD	A- 1
Q0SF	C- 1
Q0SL	A- 1
Q0SM	A- 1
TPSL	C- 3
VC0SA	C- 2
VR0SE	B- 2
PCB MIC – AMP C SIDE	
IC3300	A- 2
PCB MIC – AMP S SIDE	
L3300	A- 2
L3301	B- 2

PCB-MAIN(C SIDE)



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C981
R8502
R8501
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R4B8
R5J2
R5A6
R5C0
C5B2
R5A2
R5C4
R5C5
R5B3
Q5A0
D5B0
R5K0
C5B5
R954
R953
C956
C952
R950
Q933
C950
C963
C966
D963
D965
L962
R962
C955
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D930
C967
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R5H8
R5F2
R5F4
R5H0
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C5A4
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Q5A3
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R5F
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C4C1
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C304
C326
Q311
R310
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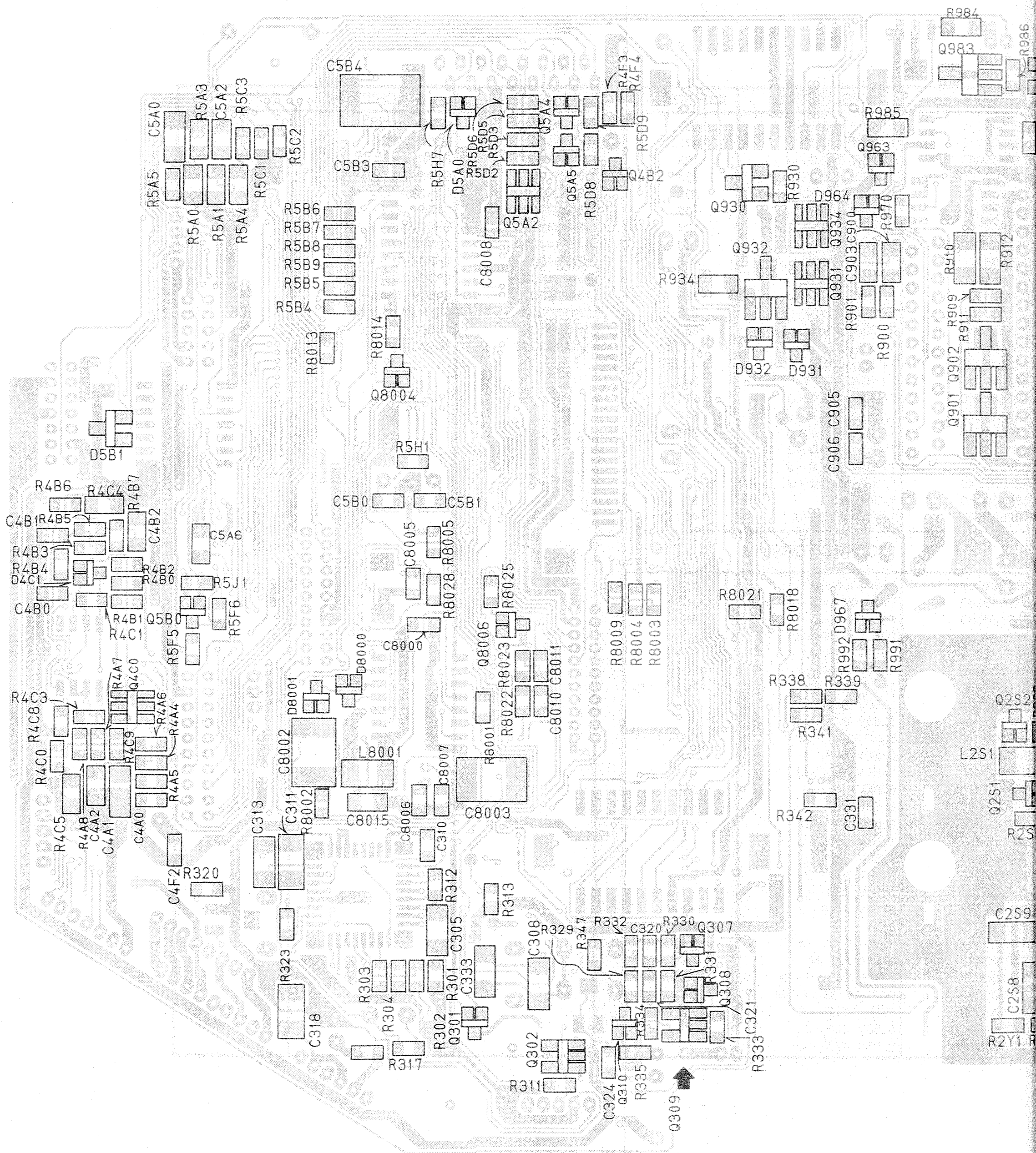
C327
R307
C328

PCB-MAIN(S SIDE)



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R5A4
R5C1
R5C2
C5B3
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R5D5
R5D3
R5D2
Q5A4
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R4F4
R5D9
Q5A5
R5D8
Q4B2
Q5A2
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R5B7
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C5A6
R4B3
R4B4
D4C1
R4B2
R4B0
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R4B1
Q5B0
R4C1
R5F5
R5F6
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C8000
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R8022
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C8011
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R8004
R8003
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R4A7
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R4A6
R4A4
R4C8
R4C9
R4C0
R4C5
R4A8
C4A2
C4A1
R4A5
C4A0
D8001
C8002
L8001
C8007
R8001
C8003
C8015
C8006
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C311
R8002
C310
C4F2
R320
R312
R313
R323
C318
R303
R304
R302
Q301
R301
C305
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R317
C308
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R311
R329
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C320
R330
Q307
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R992
R391
R338
R339
R341
R342
C331
Q930
R930
D964
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C900
R970
Q932
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C903
R910
R312
R934
R901
R900
R909
R911
D932
D931
Q901
Q902
C906
C905
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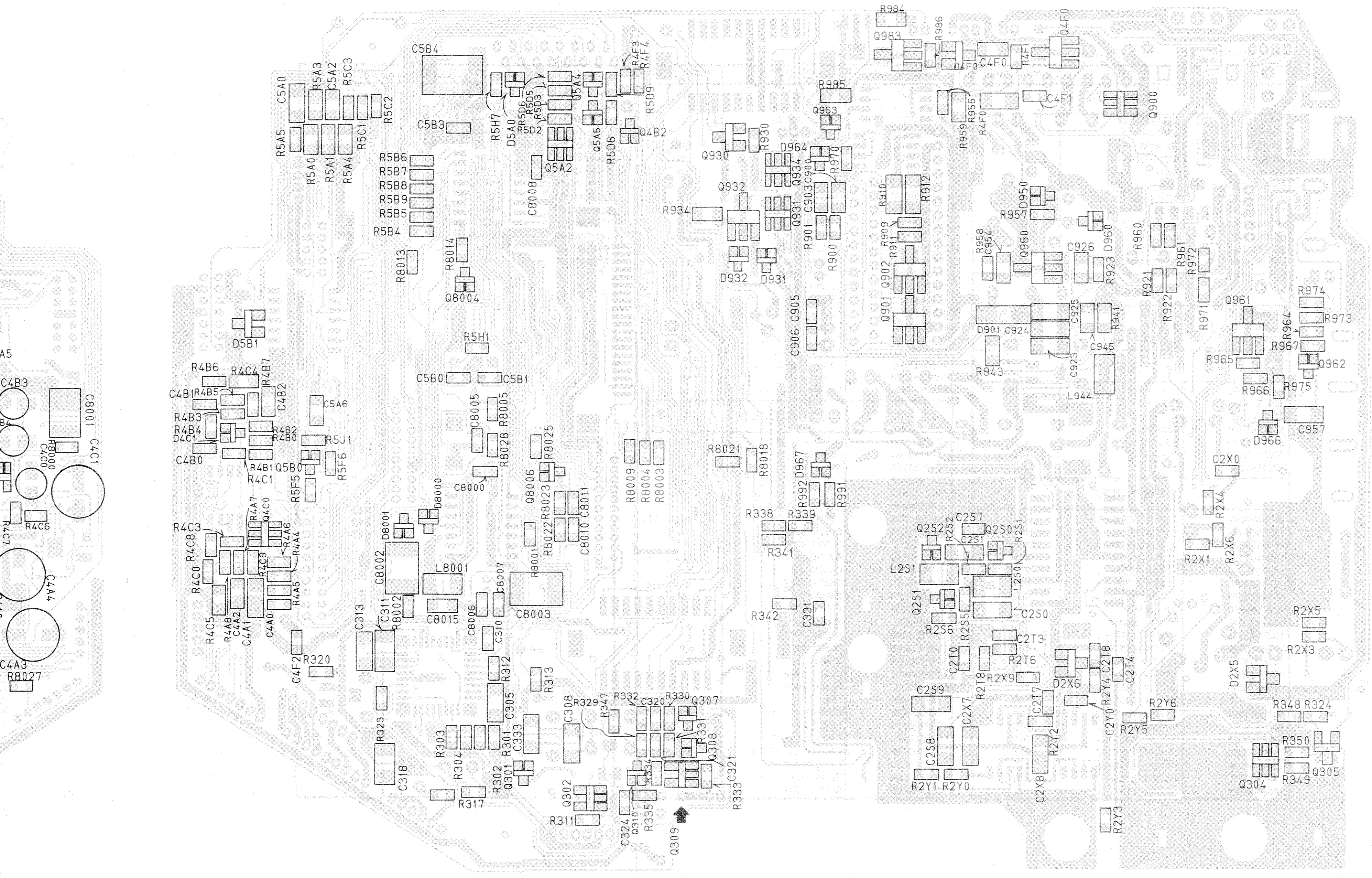
Q2S1
R2S
C2S9
C2S8
R2Y1

PCB-MAIN(S SIDE)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R5A5
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R5A4
C5B3
R5H7
D5A0
R5D2
Q5A4
Q5A5
R5D8
Q5A2
R4F3
R4F4
R509
Q4B2
R5B6
R5B7
R5B8
R5B9
R5B5
R5B4
C8008
R8013
R8014
Q8004
R5H1
D5B1
R4B6
R4C4
R4B7
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C4B0
R4B2
R4B0
C5A6
R5J1
R5F6
R5F5
Q5B0
R4B1
R4C1
C5B0
C5B1
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R8005
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C8000
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Q8006
R8023
R8022
C8010
C8011
R8009
R8004
R8003
R4C3
R4C8
R4C0
R4C5
R4A8
C4A2
C4A1
C4A0
R4A7
R4C9
R4A6
R4A4
R4A5
D8001
C8002
L8001
R8001
C8007
C8003
C8015
C8006
C313
C311
R8002
C310
C4F2
R320
R312
R313
C305
R323
R303
R304
R302
R301
Q301
C333
C318
R317
Q302
R311
C308
R329
R347
R332
C320
R330
Q307
R331
Q308
C321
R333
C324
Q310
R335
Q309
R984
Q983
R986
Q4F0
C4F0
R4F0
R4F1
C4F1
R959
R955
R985
Q963
Q930
R930
D964
Q932
R934
R970
Q931
C903
C904
Q934
R901
R900
R910
R909
R911
R912
Q901
Q902
D932
D931
C906
C905
Q900
D950
R957
R958
C954
Q960
C926
R923
D960
R960
R921
R922
R961
R972
R971
D901
C924
C925
R941
C945
R943
C923
L944
Q961
R974
R964
R973
R967
R965
Q962
R966
R975
D966
C957
R8021
R8018
D967
R992
R991
R338
R339
R341
R342
C331
C2S7
Q2S2
R2S2
C2S1
Q2S0
R2S1
L2S1
L2S0
Q2S1
C2S0
R2S6
R2S5
C2T3
C2T0
R2T6
R2T8
R2X9
D2X6
C2T8
C2T4
C2S9
C2X7
C2T7
R2T4
C2Y0
R2Y6
R2Y5
C2S8
R2Y2
C2X8
R2Y1
R2Y0
R2Y3
C2X0
R2X4
R2X1
R2X6
R2X5
R2X3
D2X5
R348
R324
R350
Q305
Q304
R349
C4B3
C8001
C4C1
R4C6
C4A4
C4A3
R8027
R4C7

CHIP PARTS LIST (PCB MAIN)

PARTS No.	DESCRIPTION	IMPRINTING
	TRANSISTORS	
260P859020	2SA1576 – R	FR
260P849020	IMZ1／XN4601	Z1
260P856010	DTA144EU	16
260P844020	FMW1／XN1501	W1,5R
260P845020	IMX1／XN4501	X1,5H
260P851010	IMD2／XN4312	D2
260P853010	FMA2／XN1113	A2
260P867060	2SD1949 – R	YR
260P857010	DTC144EU	26
260P852010	FMG2／XN1213	G2
260P861020	2SA1577A – Q	HQ,DR
260P482010	2SB798 – DK	DK
260P808010	DTC114EK	24
260P855070	2SD1819A – Q	ZQ
260P859070	2SB1218A – Q	BQ
260P858010	DTA114EU	14
260P854020	2SC4098 – P	AP
260P847010	2SB1114 – ZL	ZL
260P802090	2SA1235F,G	MF,MG
260P845010	IMX1	X1
260P865010	2SD999 – CK	CK
260P866010	2SC3736 – OK	OK
260P855010	2SC4081 – Q	BQ
	DIODES	
264P814030	MA142WA	MO
264P816090	RD11MB2	112
264P828010	DAN202U	N,Mu
264P830020	DA204U	K
264P816050	RD7.5MB2	752
264P814010	DAP202U	P,MO
264P832010	SFPB64V	B64
264P831010	SFPB54V	B54
	COILS	
325C242050	100 μ H – K	101K
325C141050	15 μ H – K	150
325C240070	3.3 μ H – M	3R3
325C132050	100 μ H – K	101K
	RESISTORS	
103P501030	1／20W 100 Ω – J	101
103P502050	1／20W 1K Ω – J	102
103P504000	1／20W 18K Ω – J	183
103P504030	1／20W 33K Ω – J	333
103P502040	1／20W 820 Ω – J	821
103P502090	1／20W 2.2K Ω – J	222
103P508040	1／20W 2.2 Ω – K	2R2
103P504000	1／20W 18K Ω – J	183
103P500090	1／20W 47 Ω – J	470

PARTS No.	DESCRIPTION	IMPRINTING
103P503020	1／20W 3.9K Ω – J	392
103P501020	1／20W 82 Ω – J	820
103P509090	1／20W 75 Ω – J	750
103P501080	1／20W 270 Ω – J	271
103P506040	1／20W 1.8M Ω – K	186
103P504010	1／20W 22K Ω – J	223
103P503060	1／20W 8.2K Ω – J	822
103P502090	1／20W 2.2K Ω – J	222
103P503010	1／20W 3.3K Ω – J	332
103P504090	1／20W 100K Ω – J	104
103P503030	1／20W 4.7K Ω – J	472
103P503080	1／20W 12K Ω – J	123
103P503070	1／20W 10K Ω – J	103
103P502030	1／20W 680 Ω – J	681
103P501070	1／20W 220 Ω – J	221
103P503090	1／20W 15K Ω – J	153
103P500010	1／20W 10 Ω – J	100
103P501040	1／20W 120 Ω – J	121
103P505000	1／20W 120K Ω – J	124
103P502020	1／20W 560 Ω – J	561
103P501010	1／20W 68 Ω – J	680
103P508080	1／20W 4.7 Ω – K	4R7
103P509050	0 Ω RM1608	00
103P504070	1／20W 68K Ω – J	683
103P505040	1／20W 270K Ω – J	274
103P505030	1／20W 220K Ω – J	224
103P504060	1／16W 56K Ω – J	563
103P505050	1／20W 330K Ω – J	334
103P503040	1／16W 5.6K Ω – J	562
103P505010	1／20W 150K Ω – J	154
103P504020	1／20W 27K Ω – J	273
103P474090	1／10W10K – F	103
103P352070	1／8W1.5K Ω – J	152
103P476050	1／10W47K – F	473
103P503000	1／20W 2.7K Ω – J	272
103P476070	1／10W56K – F	563
103P505070	1／20W 470K Ω – J	474
103P503050	1／20W 6.8K Ω – J	682
103P504050	1／20W 47K Ω – J	473
103P504080	1／20W 82K Ω – J	823
103P505020	1／20W 180K Ω – J	184
103P401050	1／10W150 Ω – J	151
103P504080	1／20W 82K Ω – J	823
103P506010	1／20W 1M Ω – J	106
103P401040	1／10W120 Ω – J	121
103P405050	1／10W330K Ω – J	334
103P502000	1／20W 390 Ω – J	391
103P352040	1／8W 820 Ω – J	821
103P502070	1／20W 1.5K Ω – J	152
103P401030	1／10W100 Ω – J	101
103P501090	1／20W 330 Ω – J	331
103P502060	1／20W 1.2K Ω – J	122
103P475050	1／10W18K – F	183
103P409050	1／10W0 Ω	00
103P505090	1／20W 680K Ω – J	684

PARTS No.
103P479010
141P136030
141P143080
181P502060
154P342090
154P344030
141P142010
181P500080
181P510010
181P506010
181P502030
141P136010
154P327060
141P140010
189P125010
154P355060
154P327000
181P500010
189P126030
189P096020
154P354040
181P506030
181P500030
141P141080
141P137090
141P135080
141P140090
141P132030
181P516010
154P324040
154P341070
141P140030
154P342010
154P340070
154P340080
154P350070
141P134010
141P137040
141P140050
154P343030
154P355040
141P131080
181P502060
141P132090
154P343070
181P503090
181P500040
181P502040

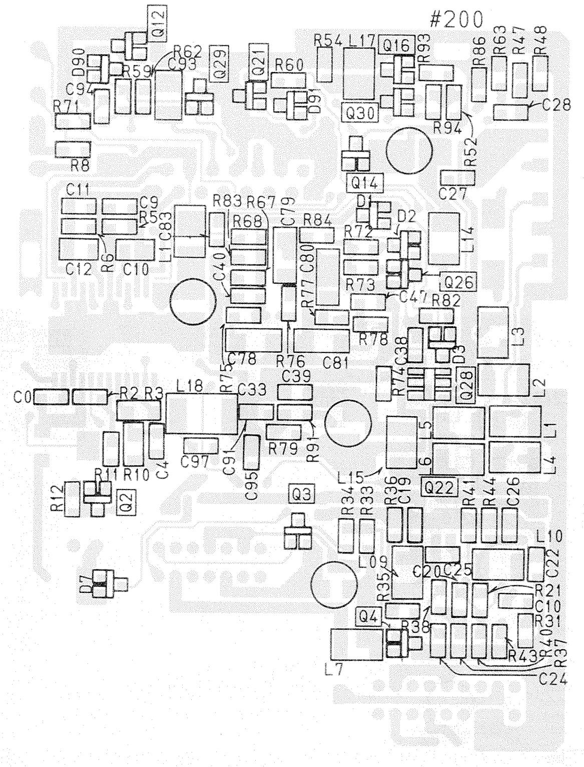
CB MAIN)

ESCRIPTION	IMPRINTING
NSISTORS	
76 – R	FR
XN4601	Z1
4EU	16
／XN1501	W1,5R
XN4501	X1,5H
XN4312	D2
／XN1113	A2
49 – R	YR
4EU	26
／XN1213	G2
77A – Q	HQ,DR
3 – DK	DK
4EK	24
19A – Q	ZQ
18A – Q	BQ
4EU	14
98 – P	AP
4 – ZL	ZL
35F,G	MF,MG
	X1
9 – CK	CK
36 – OK	OK
31 – Q	BQ
IODES	
WA	MO
B2	112
2U	N,Mu
J	K
1B2	752
2U	P,MO
V	B64
V	B54
COILS	
– K	101K
– K	150
– M	3R3
– K	101K
SISTORS	
100 Ω – J	101
1K Ω – J	102
18K Ω – J	183
33K Ω – J	333
820 Ω – J	821
2.2K Ω – J	222
2.2 Ω – K	2R2
18K Ω – J	183
47 Ω – J	470

PARTS No.	DESCRIPTION	IMPRINTING
103P503020	1／20W 3.9K Ω – J	392
103P501020	1／20W 82 Ω – J	820
103P509090	1／20W 75 Ω – J	750
103P501080	1／20W 270 Ω – J	271
103P506040	1／20W 1.8M Ω – K	186
103P504010	1／20W 22K Ω – J	223
103P503060	1／20W 8.2K Ω – J	822
103P502090	1／20W 2.2K Ω – J	222
103P503010	1／20W 3.3K Ω – J	332
103P504090	1／20W 100K Ω – J	104
103P503030	1／20W 4.7K Ω – J	472
103P503080	1／20W 12K Ω – J	123
103P503070	1／20W 10K Ω – J	103
103P502030	1／20W 680 Ω – J	681
103P501070	1／20W 220 Ω – J	221
103P503090	1／20W 15K Ω – J	153
103P500010	1／20W 10 Ω – J	100
103P501040	1／20W 120 Ω – J	121
103P505000	1／20W 120K Ω – J	124
103P502020	1／20W 560 Ω – J	561
103P501010	1／20W 68 Ω – J	680
103P508080	1／20W 4.7 Ω – K	4R7
103P509050	0 Ω RM1608	00
103P504070	1／20W 68K Ω – J	683
103P505040	1／20W 270K Ω – J	274
103P505030	1／20W 220K Ω – J	224
103P504060	1／16W 56K Ω – J	563
103P505050	1／20W 330K Ω – J	334
103P503040	1／16W 5.6K Ω – J	562
103P505010	1／20W 150K Ω – J	154
103P504020	1／20W 27K Ω – J	273
103P474090	1／10W10K – F	103
103P352070	1／8W1.5K Ω – J	152
103P476050	1／10W47K – F	473
103P503000	1／20W 2.7K Ω – J	272
103P476070	1／10W56K – F	563
103P505070	1／20W 470K Ω – J	474
103P503050	1／20W 6.8K Ω – J	682
103P504050	1／20W 47K Ω – J	473
103P504080	1／20W 82K Ω – J	823
103P505020	1／20W 180K Ω – J	184
103P401050	1／10W150 Ω – J	151
103P504080	1／20W 82K Ω – J	823
103P506010	1／20W 1M Ω – J	106
103P401040	1／10W120 Ω – J	121
103P405050	1／10W330K Ω – J	334
103P502000	1／20W 390 Ω – J	391
103P352040	1／8W 820 Ω – J	821
103P502070	1／20W 1.5K Ω – J	152
103P401030	1／10W100 Ω – J	101
103P501090	1／20W 330 Ω – J	331
103P502060	1／20W 1.2K Ω – J	122
103P475050	1／10W18K – F	183
103P409050	1／10W0 Ω	00
103P505090	1／20W 680K Ω – J	684

PARTS No.	DESCRIPTION	IMPRINTING
103P479010	1／10W560K – F	564
CAPACITORS		
141P136030	F16V1 μ F – Z	A5
141P143080	F50V 0.01 μ F – Z	A4
181P502060	16V47 μ F – M	47 μ F 16V
154P342090	CH50V 56P – J	– – –
154P344030	CH50V 220P – J	– – –
141P142010	B25V 0.01 μ F – K	– – –
181P500080	04W10V 33 μ F – M	33 μ F 10V
181P510010	04W6.3V22 μ F – M	22 μ F 6V
181P506010	50V1 μ F – M	1 μ F 50V
181P502030	16V10 μ F – M	10 μ F 16V
141P136010	F25V 0.47 μ F – Z	S4
154P327060	CH50V 4700PJ	S3
141P140010	B50V 220P – K	– – –
189P125010	25V	ES4
154P355060	SL25V 680P – J	– – –
154P327000	SL50V 2700PJ	L3
181P500010	6.3V22 – μ F – M	22 μ F 6V
189P126030	35V0.22M	VJ4
189P096020	100V 3300P – J	P332 100
154P354040	SL50V 220P – J	– – –
181P506030	04W50V3.3 μ F – M	3.3 μ F 50V
181P500030	04W6.3V47 μ F – M	47 μ F 6V
141P141080	B50V 5600P – K	– – –
141P137090	B25V0.056M	U4
141P135080	F25V0.1 μ F – Z	A5
141P140090	B50V 1000P – K	– – –
141P132030	B50V0.015M	E4
181P516010	04W 50V 1MBP	1 μ F 50V
154P324040	SL50V220P – J	J2
154P341070	CH50V 18P – J	– – –
141P140030	B50V 330P – K	– – –
154P342010	CH50V 27P – J	– – –
154P340070	CH50V 6P – C	– – –
154P340080	CH50V 7P – C	– – –
154P350070	SL50V 5P – C	– – –
141P134010	F50V0.047M	S4
141P137040	B25V0.022M	J4
141P140050	B50V 470P – K	– – –
154P343030	CH50V 82P – J	– – –
154P355040	SL25V 560P – J	– – –
141P131080	B50V5600P – K	U3
181P502060	16V47 μ F – M	47 μ F 16V
141P132090	B50V0.047M	S4
154P343070	CH50V 120P – J	– – –
181P503090	25V33 μ F – M	33 μ F 25V
181P500040	6.3V100 μ F – M	100 μ F 6V
181P502040	04W16V 22 μ F – M	22 μ F 16V

PCB-HEAD-AMP(C SIDE)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R62
C93
R59
C94
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R93
Q30
R86
R63
R47
R48
C28
R94
R52
Q14
C27
C11
C9
R5
L1
C83
C12
R6
C10
R83
R67
R68
C79
C40
C80
R77
R84
D1
R72
D2
L14
R73
Q26
C47
R82
C78
R76
C81
R78
C38
D3
L3
R75
C39
C33
L18
R74
Q28
L2
C0
R2
R3
R11
R10
C4
C97
C91
C95
R79
R91
5
6
L1
L4
R12
Q2
Q3
L15
R34
R33
R36
C19
Q22
R41
R44
C26
L10
C22
D7
L09
R35
C20
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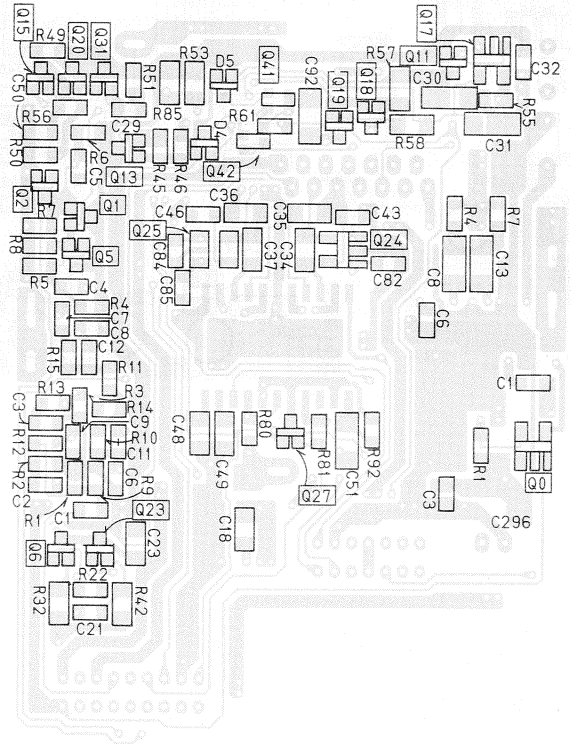
R37
R43
L7
C24

PCB-HEAD-AMP(S SIDE)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C11
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R53
R85
C29
D5
R45
R46
D4
Q42
Q41
R61
C92
C36
C46
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C43
Q25
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C85
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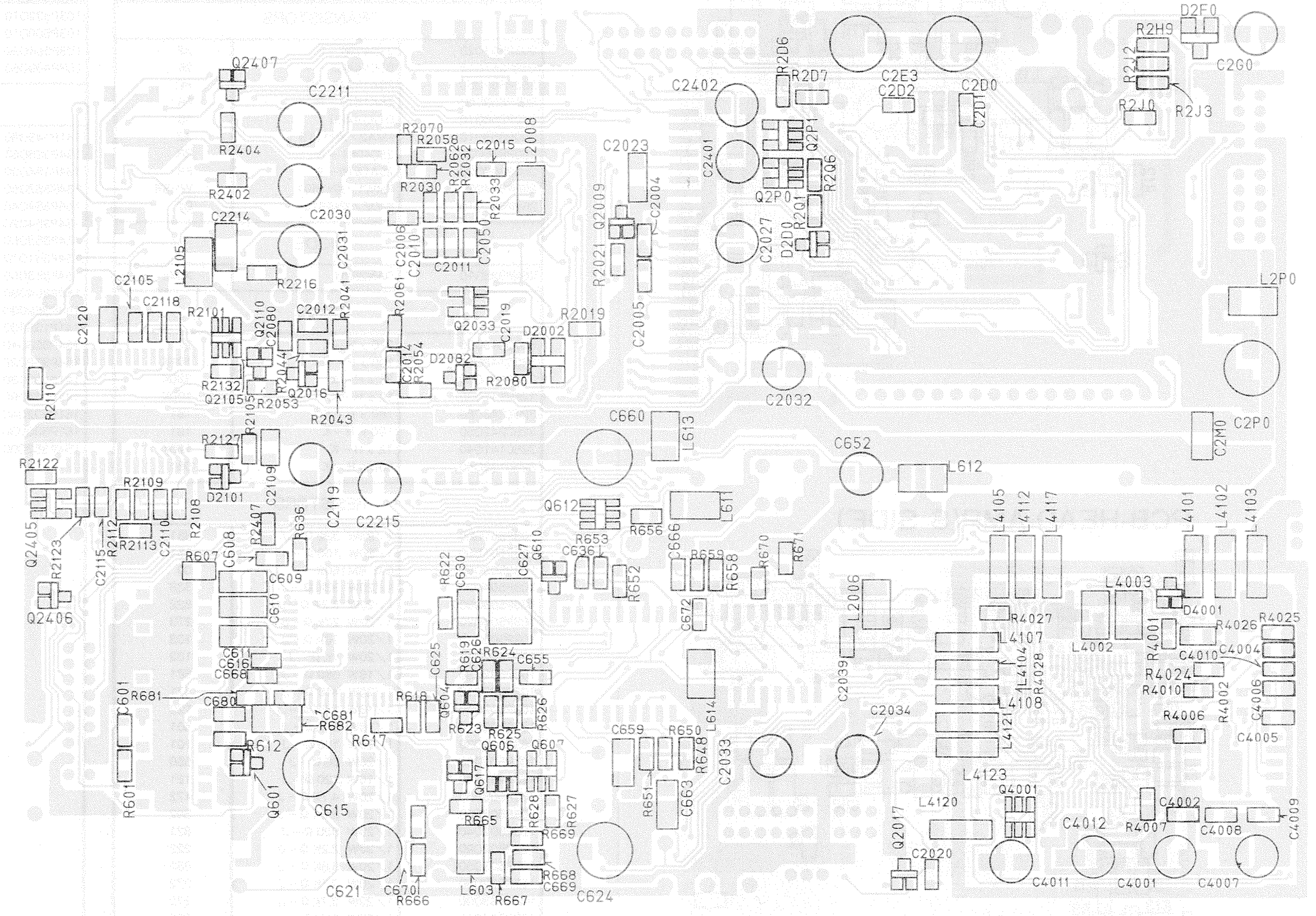
Q24
C82
Q19
Q18
R57
Q11
Q17
C32
C30
R55
R58
C31
R4
R7
C8
C13
C6
C1
C48
C49
R80
R81
Q27
C51
R92
C18
R1
C3
Q0
C296

CHIP PARTS LIST (PCB HEAD – AMP)

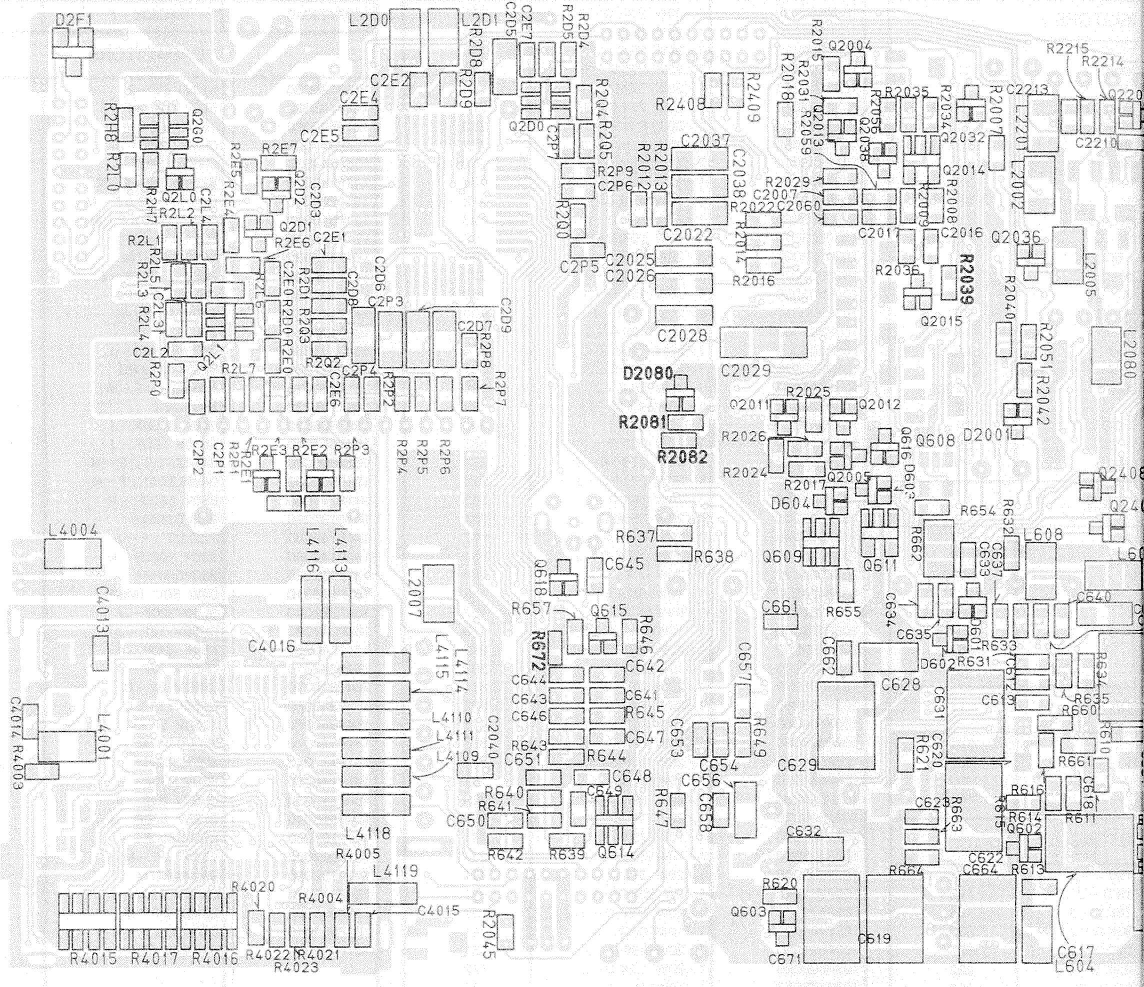
PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P854020	2SC4098 – P	AP
260P857010	DTC144EU	26
260P861050	2SA1577A – Q	HQ
260P859050	2SA1576 – R	FR
260P856010	DTA144EU	16
260P853010	FMA2／XN1113	A2
260P855020	2SC4081 – R	BR
260P859020	2SA1576 – R	FR
260P844020	FMW1／XN1501	W1,5R
260P851010	IMD2／XN4312	D2
DIODE		
264P828010	DAN202U	N,Mu
COILS		
325C243000	270 μ H – K	271
325C142050	100 μ H – K	101K
325C141090	33 μ H – K	330K
325C141030	10 μ H – K	100K
325C242080	180 μ H – K	181
325C242050	100 μ H – K	101
325C141040	12 μ H – K	120K
325C133040	560 μ H – K	561
RESISTORS		
103P501090	1／20W 330 Ω – J	331
103P501050	1／20W 150 Ω – J	151
103P509050	0 Ω RM1608	00
103P504030	1／20W 33K Ω – J	333
103P503060	1／20W 8.2K Ω – J	822
103P504020	1／20W 27K Ω – J	273
103P503070	1／20W 10K Ω – J	103
103P502050	1／20W 1K Ω – J	102
103P502030	1／16W 680 Ω – J	681
103P502010	1／20W 470 Ω – J	471
103P502060	1／16W 1.2K Ω – J	122
103P502020	1／16W 560 Ω – J	561
103P501030	1／20W 100 Ω – J	101
103P501000	1／20W 56 Ω – J	560
103P401040	1／10W 120 Ω – J	121
103P503030	1／20W 4.7K Ω – J	472
103P503020	1／20W 3.9K Ω – J	392
103P502040	1／20W 820 Ω – J	821
103P502090	1／20W 2.2K Ω – J	222
103P503050	1／20W 6.8K Ω – J	682
103P502080	1／20W 2.7K Ω – J	272
103P503000	1／20W 2.7K Ω – J	272
103P504010	1／20W 22K Ω – J	223
103P501070	1／20W 220 Ω – J	221
103P402050	1／10W1K Ω – J	102

PARTS No.	DESCRIPTION	IMPRINTING
103P502070	1／20W 1.5K Ω – J	152
103P500010	1／20W 10 Ω – J	100
103P504090	1／20W 100K Ω – J	104
103P409050	0 Ω RM1608	00
CAPACITORS		
141P143080	F50V 0.01 μ F – Z	– – –
154P355060	SL25V 680P – J	– – –
154P354000	SL50V 150P – J	– – –
154P352060	SL50V 39P – J	– – –
154P354040	SL50V 220P – J	– – –
154P354020	SL50V 180P – J	– – –
154P353060	SL50V 100P – J	– – –
154P351010	SL50V 9P – C	– – –
154P353000	SL50V 56P – J	– – –
154P354080	SL50V 330P – J	– – –
154P352000	SL50V 22P – J	– – –
141P135080	F25V0.1 μ F – Z	A5
154P353040	SL50V 82P – J	– – –
154P352020	SL50V 27P – J	– – –
141P136030	F16V1 μ F – Z	– – –
141P140090	B50V 1000P – K	– – –
181P502040	04W16V 22 μ F – M	22 μ F 16V
181P500030	04W6.3V47 μ F – M	47 μ F 6V
154P352080	SL50V 47P – J	– – –

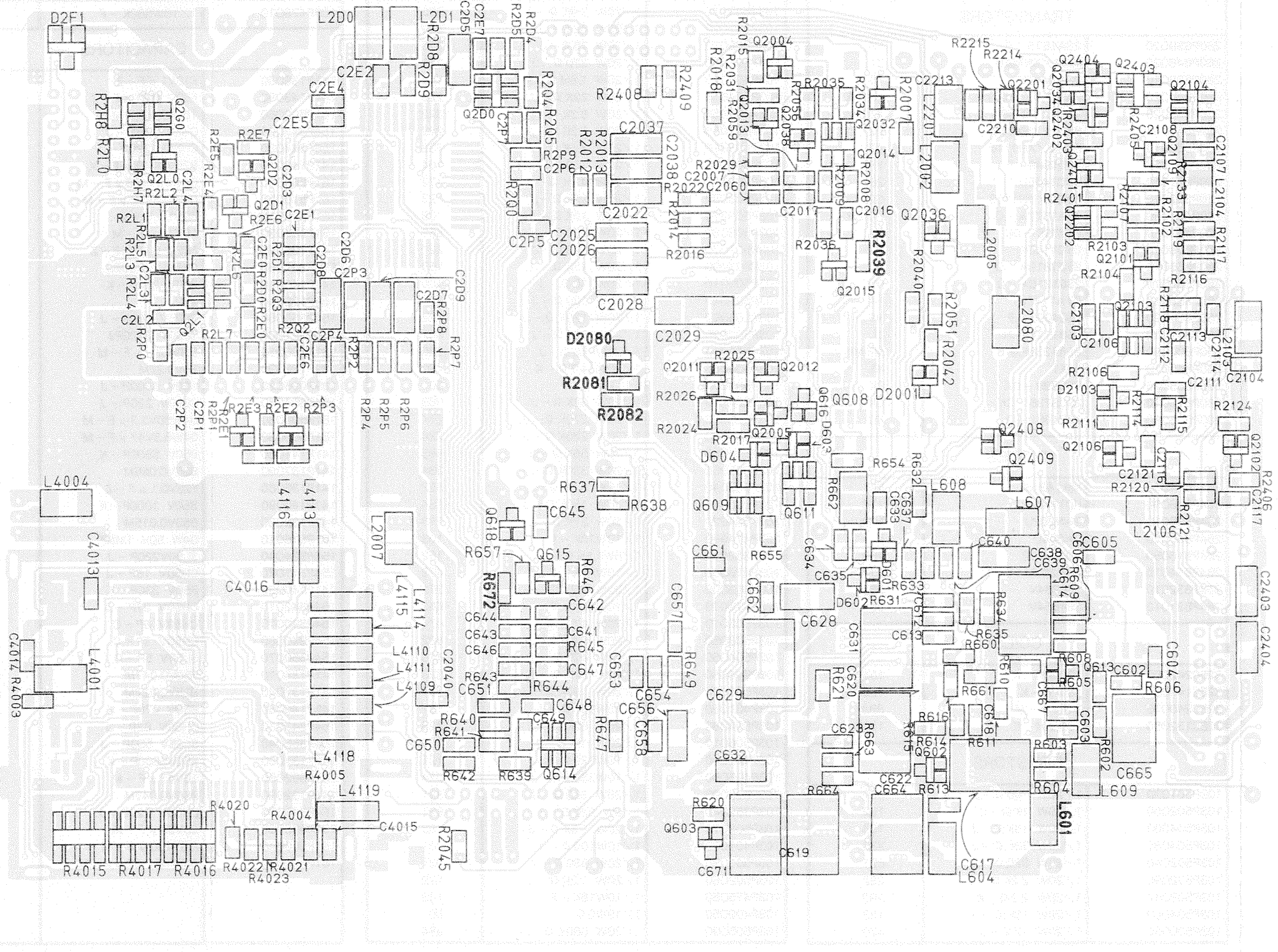
PCB-SIGNAL(C SIDE)



PCB-SIGNAL(S SIDE)



PCB-SIGNAL(S SIDE)



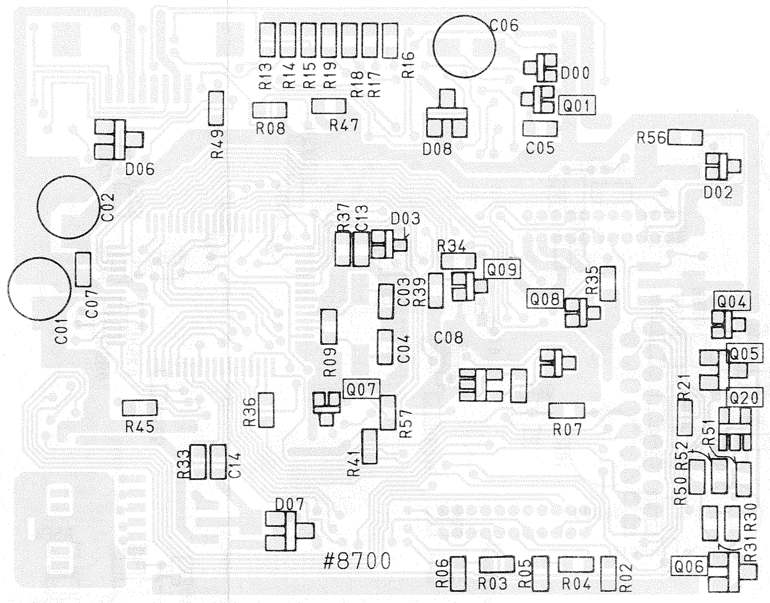
CHIP PARTS LIST (PCB SIGNAL)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P845020	IMX1／XN4501	X1,5H
260P859020	2SA1576－R	FR
260P854020	2SC4098－P	AP
260P849020	IMZ1／XN4601	Z1
260P843010	FMS1	S1
260P844020	FMW1／XN1501	W1,R5
260P856010	DTA144EU	16
260P852010	FMG2／XN1213	G2
260P851010	IMD2／XN4312	D2
260P857010	DTC144EU	26
260P861050	2SA1577A－Q	HQ
260P853010	FMA2／XN1113	A2
DIODES		
264P828010	DAN202U	N,Mu
264P833010	ND411G－2	411
264P814010	DAP202U	P,MO
COILS		
325C242050	100 μ H－K	101K
325C243000	270 μ H－K	271
325C141050	15 μ H－K	150
325C242060	120 μ H－K	121
325C230070	3.3 μ H－J	3R3
325C142050	100 μ H－K	101K
325C141070	22 μ H－K	220
RESISTORS		
103P504080	1／20W 82K Ω－J	823
103P503090	1／20W 15K Ω－J	153
103P504030	1／20W 33K Ω－J	333
103P504050	1／20W 47K Ω－J	473
103P501070	1／20W 220 Ω－J	221
103P502040	1／20W 820 Ω－J	821
103P502070	1／20W 1.5K Ω－J	152
103P509050	0 Ω RM1608	00
103P503040	1／20W 5.6K Ω－J	562
103P501030	1／20W 100 Ω－J	101
103P503030	1／20W 4.7K Ω－J	472
103P504090	1／20W 100K Ω－J	104
103P502050	1／20W 1K Ω－J	102
103P501050	1／20W 150 Ω－J	151
103P503070	1／20W 10K Ω－J	103
103P504010	1／20W 22K Ω－J	223
103P504050	1／20W 47K Ω－J	473
103P502030	1／20W 680 Ω－J	681
103P502000	1／20W 390 Ω－J	391
103P504020	1／20W 27K Ω－J	273
103P502080	1／20W 2.7K Ω－J	272
103P502090	1／20W 2.2K Ω－J	222
103P502020	1／16W 560 Ω－J	561
103P502010	1／20W 470 Ω－J	471
103P503080	1／20W 12K Ω－J	123
103P501090	1／20W 330 Ω－J	331
103P503020	1／20W 3.9K Ω－J	392
103P502060	1／20W 1.2K Ω－J	122
103P504090	1／20W 100K Ω－J	104
103P504060	1／20W 56K Ω－J	563
103P505070	1／20W 470K Ω－J	474
103P503060	1／20W 8.2K Ω－J	822
103P504000	1／20W 18K Ω－J	183
103P503000	1／20W 2.7K Ω－J	272
103P503050	1／20W 6.8K Ω－J	682
109P107020	1／32W 15K－J	A153
109P107080	1／32W 330K－J	A334
103P473040	1／10W2.4K－F	242
103P501080	1／20W 270 Ω－J	271
103P504070	1／20W 68K Ω－J	683
103P504040	1／20W 39K Ω－J	393
103P501060	1／20W 180 Ω－J	181
103P504080	1／20W 82K Ω－J	823
103P501040	1／16W 120 Ω－J	121
103P359050	1／8W 0 Ω	00
103P500090	1／20W 47 Ω－J	470
CAPACITORS		
181P502060	16V47 μ F－M	47 μ F 16V
141P143080	F50V 0.01 μ F－Z	－－－
141P136030	F16V1 μ F－Z	A6
154P344050	CH50V 270P－J	－－－
154P342070	CH50V 47P－J	－－－
154P354040	SL50V 220P－J	－－－
181P502030	16V10 μ F－M	10 μ F 16V
154P351040	SL50V 12P－C	－－－
154P353040	SL50V 82P－J	－－－
181P500040	6.3V100 μ F－M	100 μ F 6V
154P343010	CH50V 68P－J	－－－
154P343070	CH50V 120P－J	－－－
189P121010	6.3V3.3 μ F－M	JN6
154P353000	SL50V 56P－J	－－－
154P352020	SL50V 27P－J	－－－
154P355000	SL50V 390P－J	－－－
154P351020	SL50V 10P－J	－－－
154P352040	SL50V 33P－J	－－－
154P354080	SL50V 330P－J	－－－
154P353080	SL50V 100P－J	－－－
189P125010	25V	ES4
181P506000	50V0.47 μ F－M	0.47 μ F50V
189P123070	16V10 μ F－M	CA7
181P500030	04W6.3V47 μ F－M	47 μ F 6V
181P500080	04W10V 33 μ F－M	33 μ F 10V
141P143050	F50V 1000P－Z	－－－
154P352000	SL50V 22P－J	－－－
154P355020	SL50V 470P－J	－－－
154P355040	SL25V 560P－J	－－－
141P137040	B25V0.022M	J4
141P135080	F25V0.1 μ F－Z	A5
181P510010	04W6.3V22 μ F－M	22 μ F 6V
181P500010	6.3V22－μ F－M	22 μ F 6V
154P341090	CH50V 22P－J	－－－
154P342010	CH50V 27P－J	－－－
141P144000	F25V0.033 μ F－Z	－－－
154P340060	CH50V 5P－C	－－－
154P344030	CH50V 220P－J	－－－
154P343090	CH50V 150P－J	E2
181P500040	6.3V100 μ F－M	100 μ F 6V
154P341010	CH50V 10P－C	A1
189P122030	10V4.7 μ F－M	AS6

PARTS No.	DESCRIPTION	IMPRINTING
103P502020	1／16W 560 Ω－J	561
103P502010	1／20W 470 Ω－J	471
103P503080	1／20W 12K Ω－J	123
103P501090	1／20W 330 Ω－J	331
103P503020	1／20W 3.9K Ω－J	392
103P502060	1／20W 1.2K Ω－J	122
103P504090	1／20W 100K Ω－J	104
103P504060	1／20W 56K Ω－J	563
103P505070	1／20W 470K Ω－J	474
103P503060	1／20W 8.2K Ω－J	822
103P504000	1／20W 18K Ω－J	183
103P503000	1／20W 2.7K Ω－J	272
103P503050	1／20W 6.8K Ω－J	682
109P107020	1／32W 15K－J	A153
109P107080	1／32W 330K－J	A334
103P473040	1／10W2.4K－F	242
103P501080	1／20W 270 Ω－J	271
103P504070	1／20W 68K Ω－J	683
103P504040	1／20W 39K Ω－J	393
103P501060	1／20W 180 Ω－J	181
103P504080	1／20W 82K Ω－J	823
103P501040	1／16W 120 Ω－J	121
103P359050	1／8W 0 Ω	00
103P500090	1／20W 47 Ω－J	470
CAPACITORS		
181P502060	16V47 μ F－M	47 μ F 16V
141P143080	F50V 0.01 μ F－Z	―――
141P136030	F16V1 μ F－Z	A6
154P344050	CH50V 270P－J	―――
154P342070	CH50V 47P－J	―――
154P354040	SL50V 220P－J	―――
181P502030	16V10 μ F－M	10 μ F 16V
154P351040	SL50V 12P－C	―――
154P353040	SL50V 82P－J	―――
181P500040	6.3V100 μ F－M	100 μ F 6V
154P343010	CH50V 68P－J	―――
154P343070	CH50V 120P－J	―――
189P121010	6.3V3.3 μ F－M	JN6
154P353000	SL50V 56P－J	―――
154P352020	SL50V 27P－J	―――
154P355000	SL50V 390P－J	―――
154P351020	SL50V 10P－J	―――
154P352040	SL50V 33P－J	―――
154P354080	SL50V 330P－J	―――
154P353080	SL50V 100P－J	―――
189P125010	25V	ES4
181P506000	50V0.47 μ F－M	0.47 μ F50V
189P123070	16V10 μ F－M	CA7
181P500030	04W6.3V47 μ F－M	47 μ F 6V
181P500080	04W10V 33 μ F－M	33 μ F 10V
141P143050	F50V 1000P－Z	―――
154P352000	SL50V 22P－J	―――
154P355020	SL50V 470P－J	―――

PARTS No.	DESCRIPTION	IMPRINTING
154P355040	SL25V 560P－J	―――
141P137040	B25V0.022M	J4
141P135080	F25V0.1 μ F－Z	A5
181P510010	04W6.3V22 μ F－M	22 μ F 6V
181P500010	6.3V22－μ F－M	22 μ F 6V
154P341090	CH50V 22P－J	―――
154P342010	CH50V 27P－J	―――
141P144000	F25V0.033 μ F－Z	―――
154P340060	CH50V 5P－C	―――
154P344030	CH50V 220P－J	―――
154P343090	CH50V 150P－J	E2
181P500040	6.3V100 μ F－M	100 μ F 6V
154P341010	CH50V 10P－C	A1
189P122030	10V4.7 μ F－M	AS6

PCB-OPE-SUB(C SIDE)


R13
R14
R15
R19
R18
R17
R16
C06
D00
Q01
R08
R47
D08
C05
R49
D06
R56
D02
C02
R37
C13
D03
R34
Q09
R35
C01
C07
R39
C03
Q08
Q04
R09
C04
C08
Q05
Q07
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R36
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R07
R51
R52
R33
C14
R41
R50
R30
D07
R31
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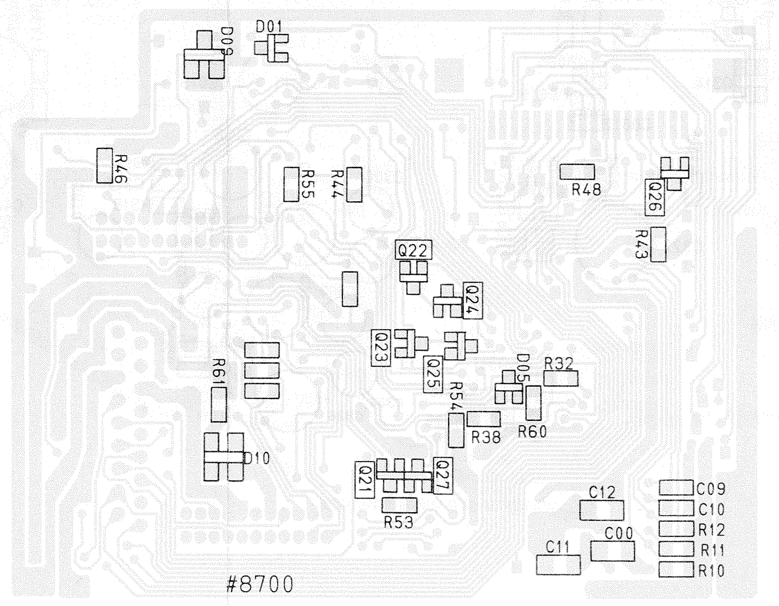
R06
R03
R05
R04
R02
Q06

PCB-OPE-SUB(S SIDE)


D09
D01
R46
R55
R44
R48
Q26
R43
Q22
Q24
R61
Q23
Q25
D05
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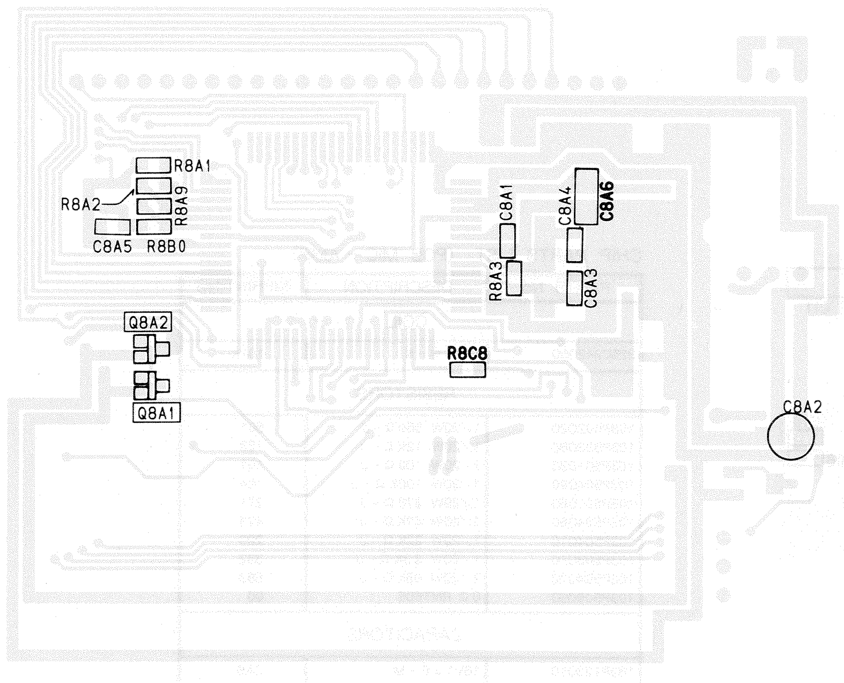
R54
R38
R60
D10
Q21
Q27
R53
C12
C09
C10
R12
R11
R10
C11
C00
#8700

CHIP PARTS LIST (PCB OPE－SUB)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P857010	DTC144EU	26
260P864010	2SK209GR	XG
260P802090	2SA1235F,G	MF,MG
260P861050	2SA1577A－Q	HQ
260P854020	2SC4098－P	AP
260P844010	FMW1	W1
260P856010	DTA144EU	16
260P859080	2SB1218A	BR
DIODES		
264P828010	DAN202U	N,Mu
264P816050	RD7.5MB2	752
264P833010	ND411G－2	411
RESISTORS		
103P504050	1／20W 47K Ω－J	473
103P503070	1／20W 10K Ω－J	103
103P504030	1／20W 33K Ω－J	333
103P504090	1／20W 100K Ω－J	104
103P506010	1／20W 1M Ω－J	106
103P509050	0 Ω RM1608	00
103P504010	1／20W 22K Ω－J	223
103P506050	1／20W 2.2M Ω－J	226
103P503030	1／20W 4.7K Ω－J	472
103P505080	1／20W 560K Ω－J	564
103P503020	1／20W 3.9K Ω－J	392
103P502050	1／20W 1K Ω－J	102
103P502060	1／20W 1.2K Ω－J	122
CAPACITORS		
141P135080	F25V0.1 μ F－Z	A5
181P500030	04W6.3V47 μ F－M	47 μ F 6V
181P502030	16V10 μ F－M	10 μ F 16V
154P342030	CH50V 33P－J	―――
141P143080	F50V 0.01 μ F－Z	―――
181P506040	04W50V4.7M	4.7 μ F 50V

PCB-LCD(C SIDE)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R8A8
C8A5
R8B0
Q8A2
Q8A1
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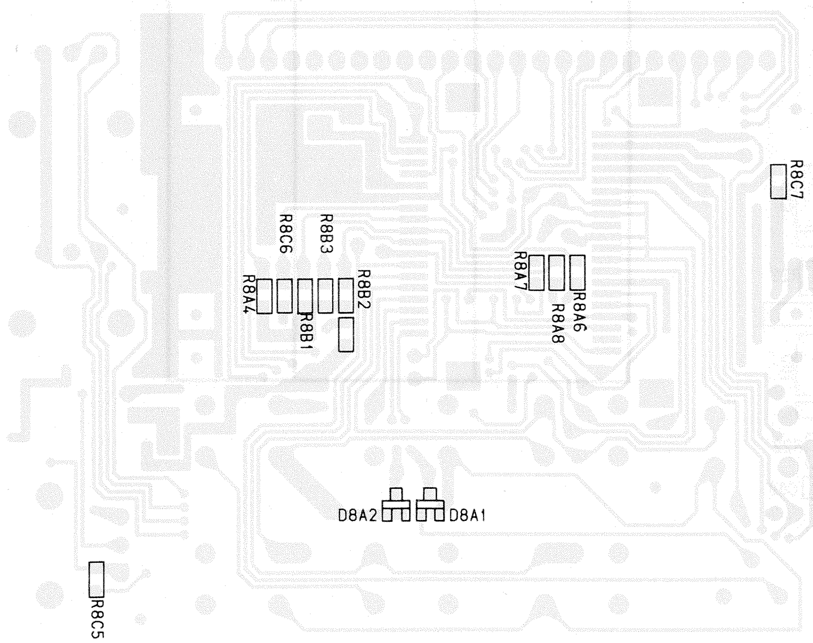
C8A1
C8A4
C8A6
C8A3
R8C8
C8A2

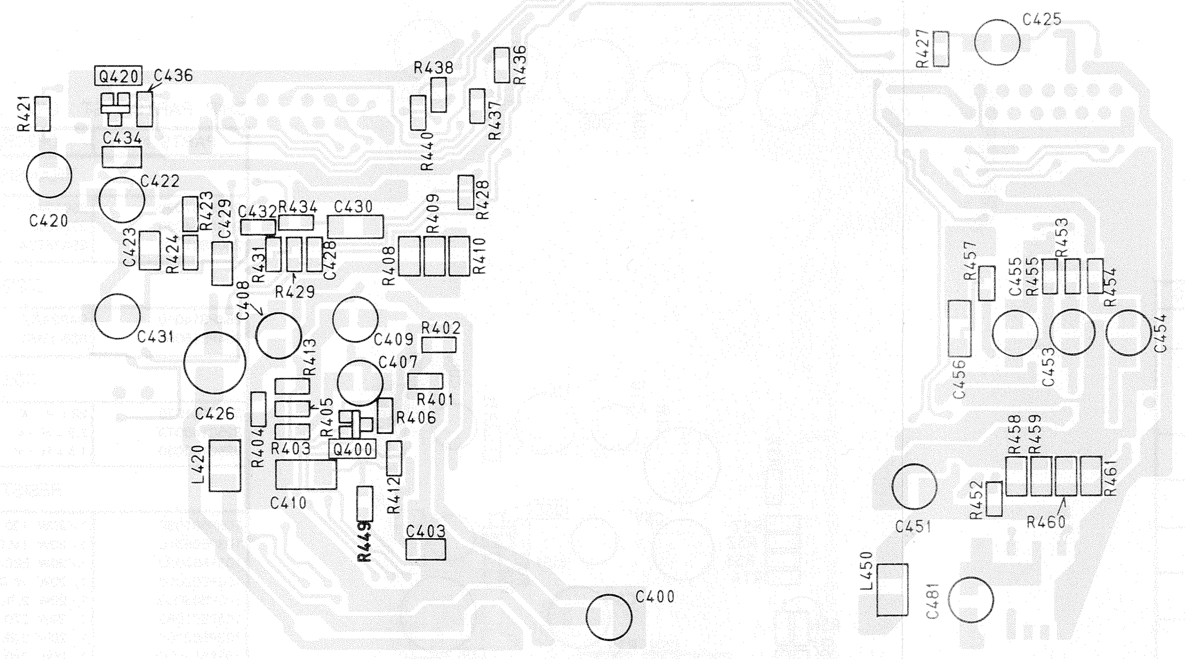
PCB-LCD(S SIDE)


R8C7
R8C6
R8B3
R8A4
R8B1
R8B2
R8A7
R8A6
R8A8
D8A2
D8A1
R8C5

CHIP PARTS LIST (PCB LCD)

PARTS No.	DESCRIPTION	IMPRINTING
	TRANSISTORS	
260P856010	DTA144EU	16
260P857010	DTC144EU	26
	DIODE	
264P814010	DAP202U	P,MO
	RESISTORS	
103P504090	1／20W 100K Ω − J	104
103P506010	1／20W 1M Ω − J	106
103P504050	1／20W 47K Ω − J	473
103P503070	1／20W 10K Ω − J	103
103P502050	1／20W 1K Ω − J	102
103P502060	1／20W 1.2K Ω − J	122
103P502030	1／20W 680 Ω − J	681
103P504030	1／20W 33K Ω − J	333
	CAPACITORS	
141P143080	F50V 0.01 μ F − Z	− − −
181P502030	16V10 μ F − M	10 μ F 16V
154P343050	CH50V 100P − J	− − −

PCB-MDA(C SIDE)


Q420
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C434
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C423
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R434
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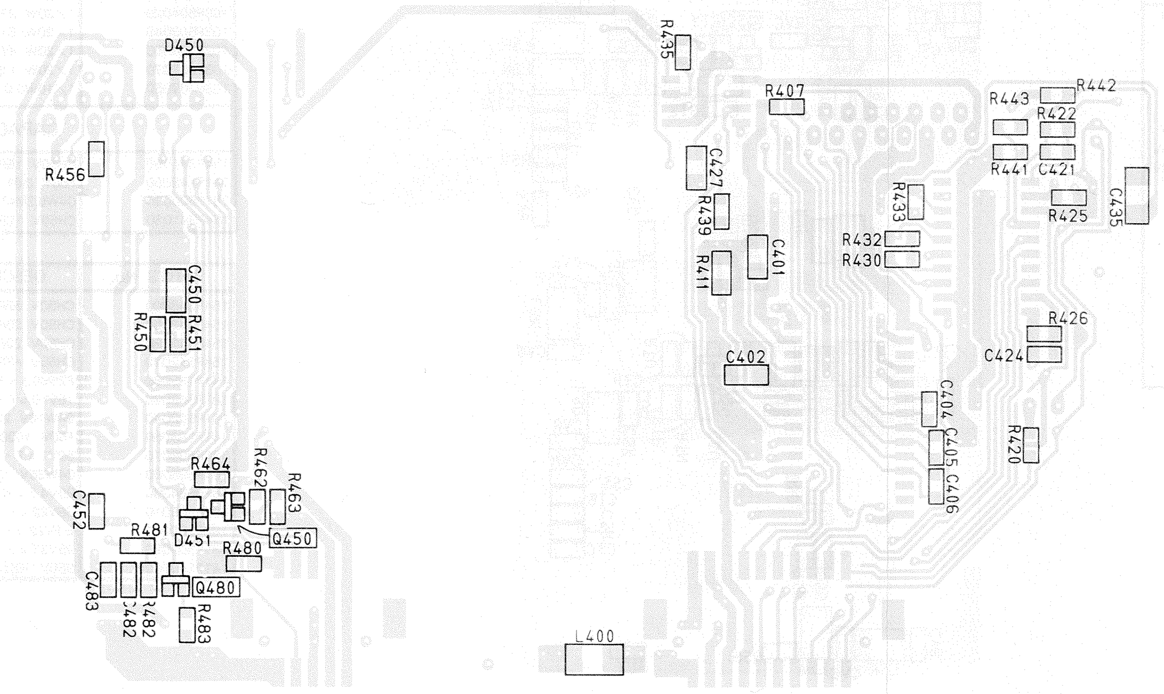
R438
R436
R440
R437
R428
R409
R408
R410
C408
C431
C426
R413
C409
R402
C407
R401
R405
R406
R404
R403
Q400
L420
C410
R412
R449
C403
C400
R427
C425
R457
C455
R455
R453
R454
C454
C456
C453
R458
R459
R461
R460
R452
C451
L450
C481

PCB-MDA(S SIDE)


D450
R456
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R451
R464
R462
R463
C452
R481
D451
R480
Q450
Q480
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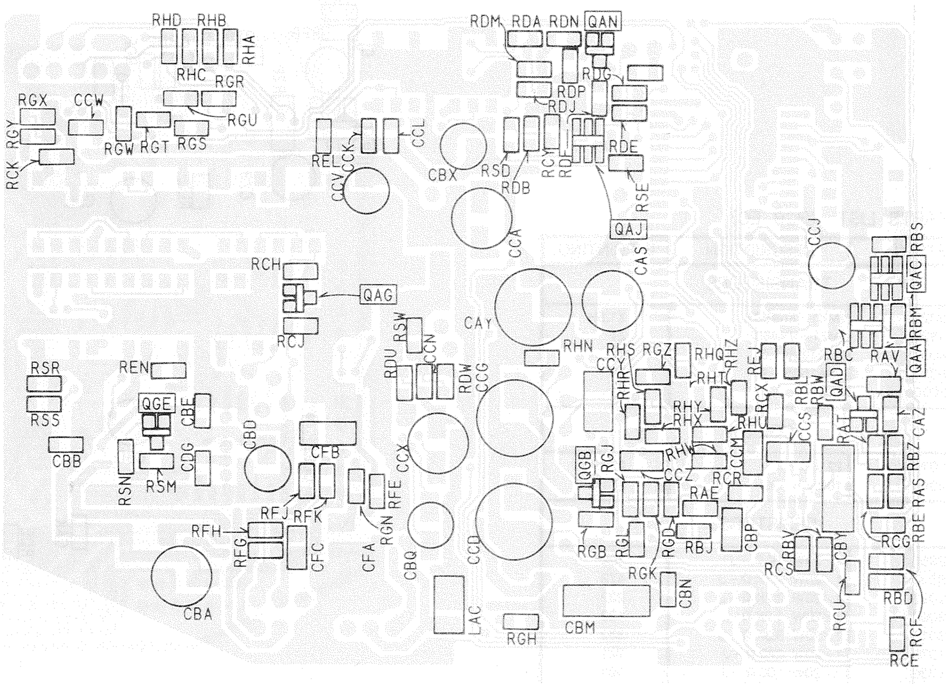
R407
C427
R439
R411
C401
C402
R443
R442
R422
R441
C421
C435
R425
R433
R432
R430
R426
C424
C404
C405
C406
R420
L400

CHIP PARTS LIST (PCB MDA)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P855010	2SC4081 − Q	BQ
260P855030	2SC4081 − S	BS
260P867050	2SD1949 − Q	YQ
DIODES		
264P828010	DAN202U	N,Mu
264P814010	DAP202U	P,MO
COIL		
325C142010	47 μ H − K	470K
RESISTORS		
103P503030	1/20W 4.7K Ω − J	472
103P504060	1/20W 56K Ω − J	563
103P500070	1/20W 33 Ω − J	330
103P503070	1/20W 10K Ω − J	103
103P408050	1/10W 2.7 Ω − K	272
103P505050	1/20W 330K Ω − J	334
103P501070	1/20W 220 Ω − J	221
103P502010	1/20W 470 Ω − J	471
103P503010	1/20W 3.3K Ω − J	332
103P502050	1/20W 1K Ω − J	102
103P504090	1/20W 100K Ω − J	104
103P504010	1/20W 22K Ω − J	223
103P506010	1/20W 1M Ω − J	106
103P504080	1/20W 82K Ω − J	823
103P502090	1/20W 2.2K Ω − J	222
103P504050	1/20W 47K Ω − J	473
103P504070	1/20W 68K Ω − J	683
103P503040	1/20W 5.6K Ω − J	562
103P506000	1/20W 820K Ω − J	824
103P508040	1/20W 2.2 Ω − K	2R2
103P501030	1/20W 100 Ω − J	101
103P500010	1/20W 10 Ω − J	100
103P500090	1/20W 47 Ω − J	470
103P508080	1/20W 4.7 Ω − K	4R7
CAPACITORS		
181P500030	04W6.3V47 μ F − M	47 μ F 6V
141P139030	B25V 0.1 μ F − K	A5
141P135080	F25V0.1 μ F − Z	A5
141P144000	F25V0.033 μ F − Z	− − −
181P506020	04W50V2.2 μ F − M	2.2 μ F 50V
189P122030	10V4.7 μ F − M	AS6
181P500010	6.3V22 − μ F − M	22 μ F 6V
154P343050	CH50V 100P − J	− − −
181P506010	50V1 μ F − M	1 μ F 50V
141P140090	B50V 1000P − K	− − −
154P355040	SL25V 560P − J	− − −

PARTS No.	DESCRIPTION	IMPRINTING
141P136030	F16V1 μ F − Z	A6
181P502030	16V10 μ F − M	10 μ F 16V
141P141010	B50V 1500P − K	− − −
141P134010	F50V0.047M	S4
141P142010	B25V 0.01 μ F − K	− − −
141P136000	F25V 0.33 μ F − Z	N5
181P500080	04W10V 33 μ F − M	33 μ F 10V
141P141030	B50V 2200P − K	− − −

PCB-PC(C SIDE)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RHA
RHC RGR
RGX CCW
RGW RGT RGS
RGU
RGY
RCK
REL CCK
CCV
CCL
CBX
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RCY
RDF
RDM RDA RDN QAN
RDG
RDP
RDJ
RDE
RSE
QAJ
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QAC
RCH
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RSW
RDU
CCN
RDW
CCG
CAY
RGM
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RSS
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RFE
RHN RHS RGZ
CCY
RHQ
RHR
RHT
RHZ
RHY
RHX
RCY
RHU
RBW
QAD
RBC RAV
CCS
RBZ
CAZ
RAS
QGB
RGJ
CCZ
RAE
RCR
CCM
RFJ RFK
RFH
RFG
CFC
CFA
RGN
CBQ
CCD
RGB
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RGK
RBJ
CBP
RBY
CBN
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RBE
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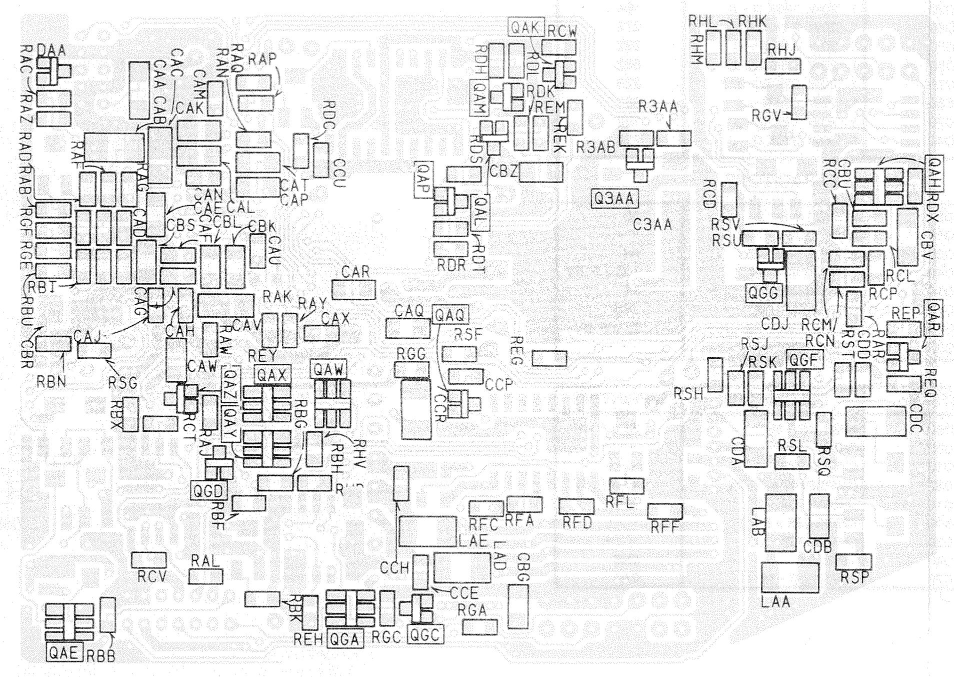
RCE
CBA
LAC
RGH
CBM

PCB-PC(S SIDE)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CAD
CBS
CAE
CAF
CAN
CBL
CAL
CBK
CAU
CAT
CAP
RDC
CCU
CAG
RBT
CAJ
CAH
RAK RAY
CAX
RAW
CAV
REY
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RSG
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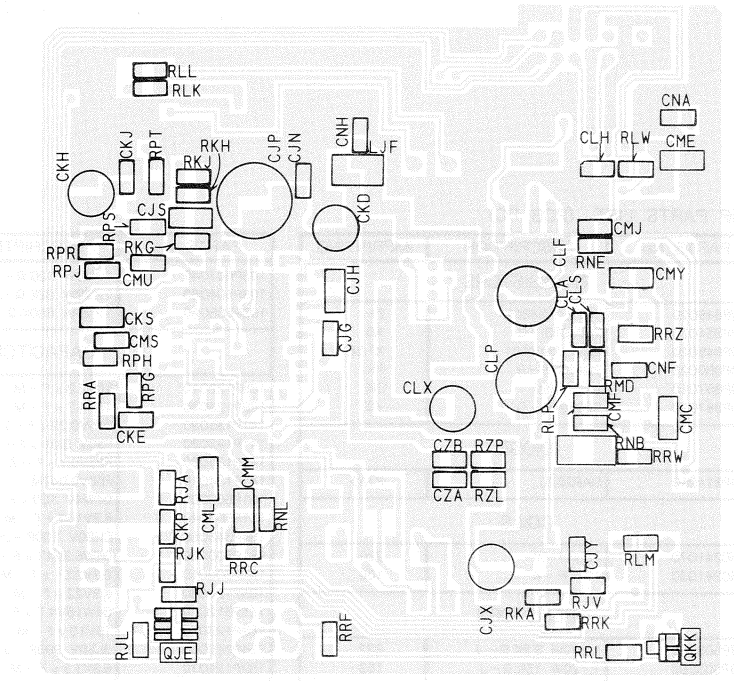
QAZ
QAY
RCT
RBG
RBH
RHV
QGD
RBF
RCV
RAL
QAK RCW
RDH
QAM
RDL
RDK
REM
REK
RDS
CBZ
QAP
QAL
RDT
RDR
CAR
CAQ QAQ
RSF
REG
RGG
CCP
CCR
Q3AA
C3AA
R3AA
R3AB
RHL RHK
RHM
RHJ
RGV
RCD
RSV
RSU
CBU
RCC
QAH
RDX
CBV
QGG
RCL
RCP
REP
QAR
REQ
CDC
CDJ RCM
RSJ RCN
RSK QGF
RST
CDD
RSH
CDA
RSL
RSQ
RFL
RFF
RFD
RFC RFA
LAE
LAD
CBG
LAB
CDB
RSP
LAA
CCH
CCE
RGA
RBK
REH QGA RGC QGC
QAE RBB

CHIP PARTS LIST (PCB PC)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P849020	IMZ1/XN4601	Z1
260P854030	2SC4098 − Q	AQ
260P845020	IMX1/XN4501	X1,5H
260P859020	2SA1576 − R	FR
260P857010	DTC144EU	26
260P867020	2SD1949 − Q	YQ
DIODE		
264P814010	DAP202U	P,MO
COILS		
325C241070	22 μ H − K	220
325C241030	10 μ H − K	100
RESISTORS		
103P503060	1/20W 8.2K Ω − J	822
103P503090	1/20W 15K Ω − J	153
103P504000	1/20W 18K Ω − J	183
103P503050	1/20W 6.8K Ω − J	682
103P502050	1/20W 1K Ω − J	102
103P504030	1/20W 33K Ω − J	333
103P503080	1/20W 12K Ω − J	123
103P504050	1/20W 47K Ω − J	473
103P503070	1/20W 10K Ω − J	103
103P503040	1/20W 5.6K Ω − J	562
103P504010	1/20W 22K Ω − J	223
103P502090	1/20W 2.2K Ω − J	222
103P503030	1/20W 4.7K Ω − J	472
103P502080	1/20W 2.7K Ω − J	272
103P506010	1/20W 1M Ω − J	106
103P504060	1/20W 56K Ω − J	563
103P504090	1/20W 100K Ω − J	104
103P504040	1/20W 39K Ω − J	393
103P501030	1/20W 100 Ω − J	101
103P504070	1/20W 68K Ω − J	683
103P501090	1/20W 330 Ω − J	331
103P502010	1/20W 470 Ω − J	471
103P502040	1/20W 820 Ω − J	821
103P501070	1/20W 220 Ω − J	221
103P502030	1/20W 680 Ω − J	681
103P503020	1/16W 3.9K Ω − J	392
103P509050	0 Ω RM1608	00
103P503010	1/20W 3.3K Ω − J	332
103P504020	1/20W 27K Ω − J	273
103P505000	1/20W 120K Ω − J	124
103P502080	1/20W 2.7K Ω − J	272
103P503000	1/20W 2.7K Ω − J	272
103P502020	1/20W 560 Ω − J	561
103P502070	1/20W 1.5K Ω − J	152
103P502060	1/16W 1.2K Ω − J	122

PARTS No.	DESCRIPTION	IMPRINTING
103P501040	1/20W 120 Ω − J	121
103P504080	1/20W 82K Ω − J	823
103P505090	1/20W 680K Ω − J	684
CAPACITORS		
189P122010	10V2.2 μ F − M	AJ6
189P122030	10V4.7 μ F − M	AS6
141P135090	F25V0.22 μ F − Z	J5
141P143080	F50V 0.01 μ F − Z	− − −
141P135080	F25V0.1 μ F − Z	A5
141P134010	F50V0.047M	S3
181P508000	04W4V 100 μ F − M	100 μ F 4V
181P500040	6.3V100 μ F − M	100 μ F 6V
154P343050	CH50V 100P − J	− − −
181P500030	04W6.3V47 μ F − M	47 μ F 6V
181P500010	6.3V22 − μ F − M	22 μ F 6V
189P121060	6.3V22 μ F − M	JJ7
181P512020	04W16V4.7 μ F − M	4.7 μ F 16V
189P123070	16V10 μ F − M	CA7
154P355000	SL50V 390P − J	− − −
189P121010	6.3V3.3 μ F − M	JN6
181P507080	4V33 μ F − M	33 μ F 4V
181P510010	04W6.3V22 μ F − M	22 μ F 6V
181P502060	16V47 μ F − M	47 μ F 16V
154P342090	CH50V 56P − J	− − −
154P342010	CH50V 27P − J	− − −
141P144000	F25V0.033 μ F − Z	− − −
141P136030	F16V1 μ F − Z	A5
154P344030	CH50V 220P − J	− − −
189P123040	16V3.3M	CN6

PCB-EC(C SIDE)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CLH
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CKJ
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CJP
CJN
CNH
LJF
CKH
RKJ
CJS
CKD
CMJ
RPS
RKG
CMU
RPR
RPJ
CJH
CLF
RNE
CMY
CKS
CMS
RPH
RPG
RRA
CKE
CJG
CLS
RRZ
CLP
CLX
RMD
CNF
RLE
CMC
CZB
RZP
RNB
RRW
CZA
RZL
RJA
CMM
CML
RNL
CKP
RJK
RRC
RJJ
RLM
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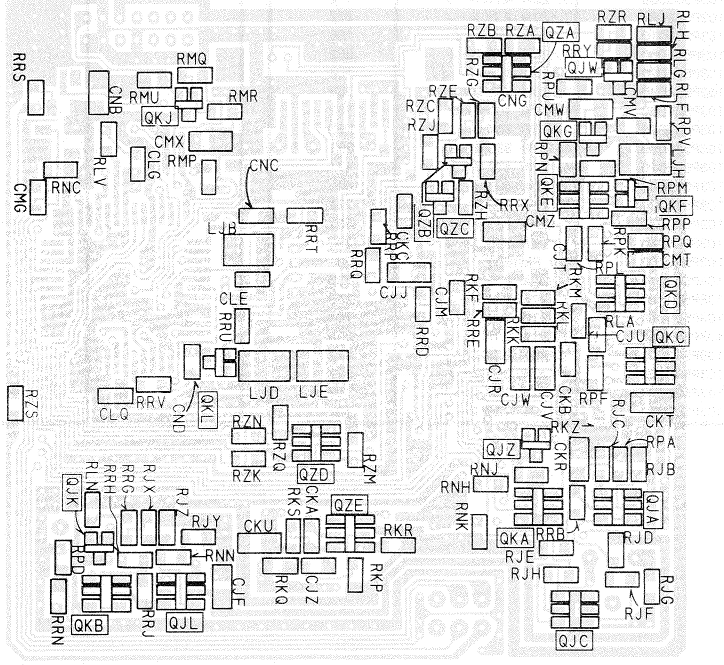
QJE
RRL
QKK

PCB-EC(S SIDE)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RMQ
CNB
RMU
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CLG
RMP
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CNC
LJB
RRT
RZB
RZA
QZA
RZR
RLJ
RLH
RLG
RLF
RPV
LJH
RRY
QJW
RZC
RZE
RZJ
CNG
CMW
QKG
RPN
RRX
CMZ
QZC
QZB
RKP
RPM
QKF
RPP
RPQ
CMT
RRQ
CJJ
CJM
RKF
RRE
CJT
RKM
QKD
CLE
RRU
RRD
RPL
RLA
CJU
QKC
RZS
CLQ
RRV
CND
QKL
LJD
LJE
CJR
CJW
CKB
RPF
CKT
RZN
RZQ
RZK
QZD
RZM
RJC
RPA
QJZ
RKZ
CKR
RJB
RLN
RRH
RRG
RJX
RJY
RKS
CKA
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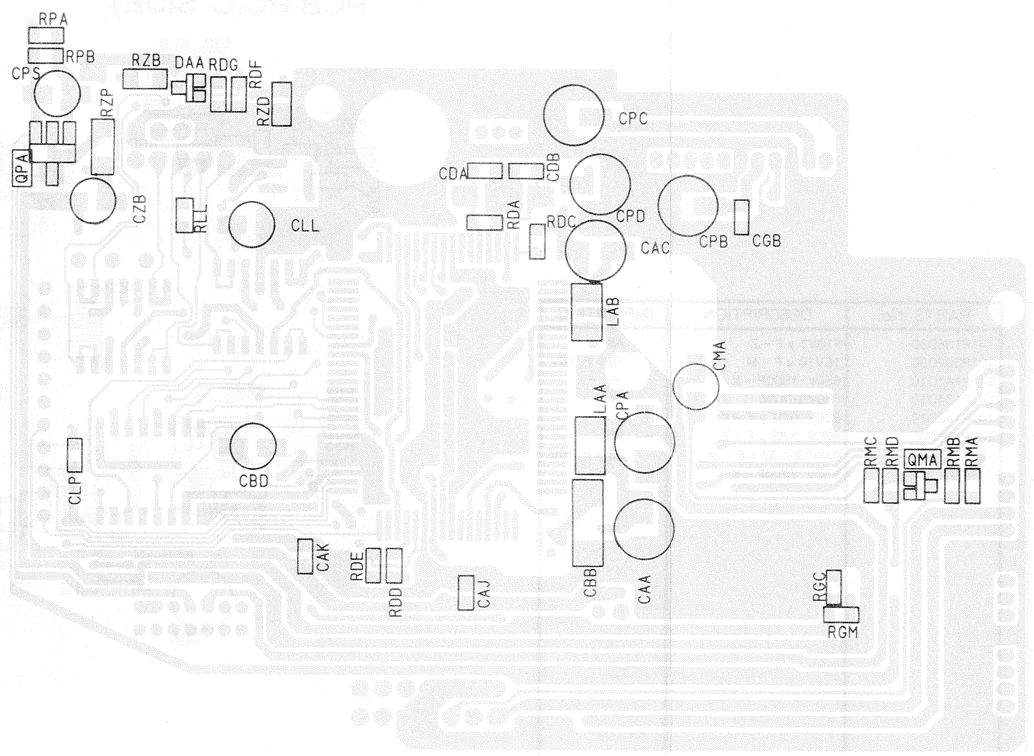
RJD
RJE
RJH
RPD
RNN
CJE
RKQ
CJZ
RJG
RJF
RRN
QKB
RRJ
QJL
QJC

CHIP PARTS LIST (PCB EC)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P845020	IMX1／XN4501	X1,5H
260P849020	IMZ1／XN4601	Z1
260P854030	2SC4098 − Q	AQ
260P859020	2SA1576 − R	FR
260P863010	IMT1	T1
COILS		
325C241070	22 μ H − K	220
325C142050	100 μ H − K	101K
RESISTORS		
103P502050	1／20W 1K Ω − J	102
103P503030	1／20W 4.7K Ω − J	472
103P502090	1／20W 2.2K Ω − J	222
103P502060	1／20W 1.2K Ω − J	122
103P503010	1／20W 3.3K Ω − J	332
103P501070	1／20W 220 Ω − J	221
103P501030	1／20W 100 Ω − J	101
103P504030	1／20W 33K Ω − J	333
103P503000	1／20W 2.7K Ω − J	272
103P503070	1／20W 10K Ω − J	103
103P509050	0 Ω RM1608	00
103P504020	1／20W 27K Ω − J	273
103P502040	1／20W 820 Ω − J	821
103P501060	1／20W 180 Ω − J	181
103P503060	1／20W 8.2K Ω − J	822
103P503090	1／20W 15K Ω − J	153
103P500080	1／20W 39 Ω − J	390
103P502000	1／20W 390 Ω − J	391
103P502010	1／20W 470 Ω − J	471
103P503040	1／20W 5.6K Ω − J	562
103P503080	1／20W 12K Ω − J	123
103P505020	1／20W 180K Ω − J	184
103P502080	1／20W 2.7K Ω − J	272
103P503020	1／20W 3.9K Ω − J	392
103P503050	1／20W 6.8K Ω − J	682
103P504010	1／20W 22K Ω − J	223
103P502030	1／20W 680 Ω − J	681
103P502070	1／20W 1.5K Ω − J	152
103P505040	1／20W 270K Ω − J	274
CAPACITORS		
141P135080	F25V0.1 μ F − Z	A5
141P142010	B25V 0.01 μ F − K	− − −
141P133080	F50V0.01 μ F − Z	A4
181P500040	6.3V100 μ F − M	100 μ F 6V
141P134010	F50V0.047M	S4
189P121010	6.3V3.3 μ F − M	JN6
181P500010	6.3V22 − μ F − M	22 μ F 6V
154P343030	CH50V 82P − J	− − −

PARTS No.	DESCRIPTION	IMPRINTING
181P507080	4V33 μ F − M	33 μ F 4V
154P343050	CH50V 100P − J	− − −
154P342010	CH50V 27P − J	− − −
181P500030	04W6.3V47 μ F − M	47 μ F 6V
154P341010	CH50V 10P − C	− − −
141P144000	F25V0.033 μ F − Z	− − −
154P341030	CH50V 12P − J	− − −
189P123040	16V3.3M	CN6
189P123070	16V10 μ F − M	CA7

PCB-CM(C SIDE)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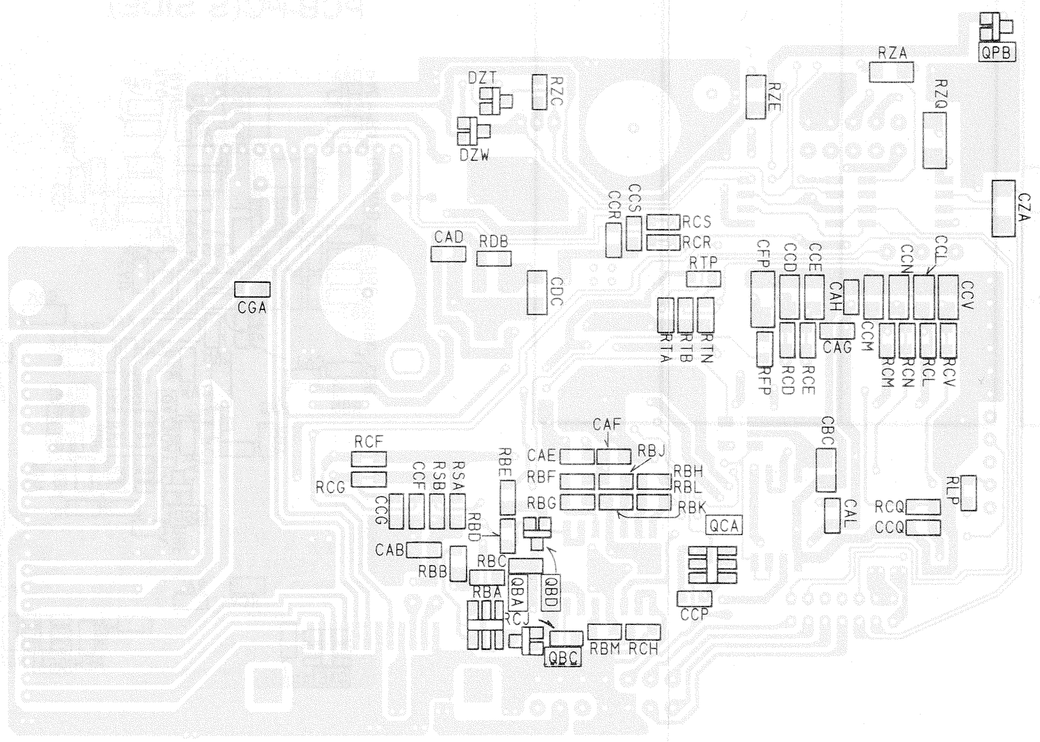
RZP
RZD
CPC
QPA
CDA
CDB
CZB
RLL
CLL
RDA
RDC
CPD
CPB
CGB
CAC
LAB
CMA
LAA
CPA
CLP
CBD
RMC
RMD
QMA
RMB
RMA
CAK
RDE
RDD
CAJ
CBB
CAA
RGC
RGM

PCB-CM(S SIDE)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CFP
CCD
CCE
CCL
CAH
CCN
CCV
CGA
CDC
RTA
RTB
RTN
RFP
RCD
RCE
CCM
CAG
RCM
RCL
RCV
CAF
RCF
RBE
CAE
RBJ
RCG
CCF
RSA
RSB
CCG
RBF
RBH
RBL
RBG
RBK
CBC
RLP
RCQ
CCQ
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CAB
RBD
RBC
RBB
RBA
QBA
QBD
QBC
RBM
RCH
CCP

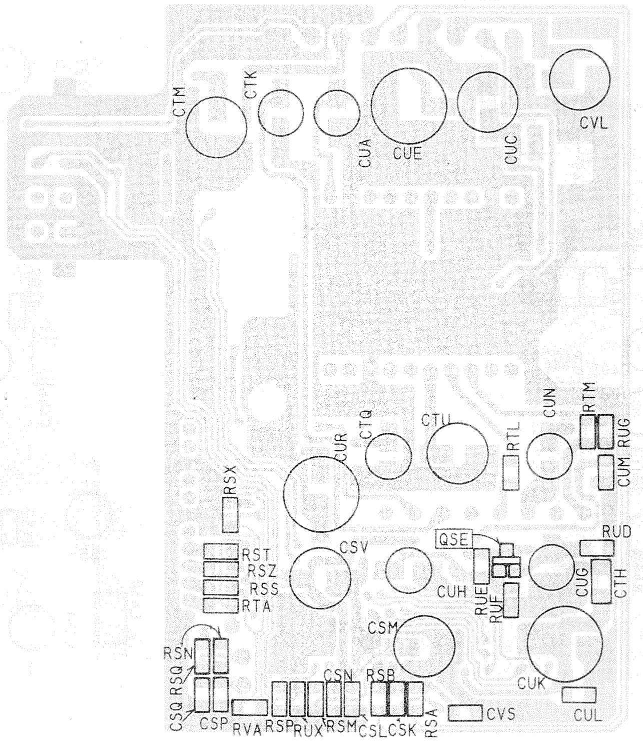
CHIP PARTS LIST (PCB CM)

PARTS No.	DESCRIPTION	IMPRINTI
TRANSISTORS		
260P851010	IMD2／XN4312	D2
260P854030	2SC4098 − Q	AQ
260P482010	2SB798 − DK	DK
260P857020	DTC144EU	26
DIODES		
264P828010	DAN202U	N,Mu
264P830020	DA204U	K
COILS		
325C242010	47 μ H − K	470K
325C242050	100 μ H − K	101K
RESISTORS		
103P509050	0 Ω RM1608	00
103P506010	1／20W 1M Ω − J	106
103P503070	1／20W 10K Ω − J	103
103P504020	1／20W 27K Ω − J	273
103P504050	1／20W 47K Ω − J	473
103P502050	1／20W 1K Ω − J	102
103P503080	1／20W 12K Ω − J	123
103P504090	1／20W 100K Ω − J	104
103P503030	1／20W 4.7K Ω − J	472
103P473050	1／10W 2.7K − F	272
103P474010	1／10W 4.7K − F	472
103P474090	1／10W10K − F	103
103P351080	1／8W 270 Ω − J	271
CAPACITORS		
181P500030	04W6.3V47 μ F − M	47 μ F
141P142010	B25V 0.01 μ F − K	− − −
141P135080	F25V0.1 μ F − Z	A5
141P143080	F50V 0.01 μ F − Z	− − −
154P342030	CH50V 33P − J	− − −
141P136000	F25V 0.33 μ F − Z	N5
181P500010	6.3V22 − μ F − M	22 μ F
181P502030	16V10 μ F − M	10 μ F
181P500080	04W10V 33 μ F − M	33 μ F

CM)

RIPTION	IMPRINTING
ISTORS	
312	D2
Q	AQ
K	DK
	26
DES	
	N,Mu
	K
ILS	
	470K
	101K
STORS	
8	00
M Ω – J	106
K Ω – J	103
K Ω – J	273
K Ω – J	473
Ω – J	102
K Ω – J	123
0K Ω – J	104
7K Ω – J	472
7K – F	272
7K – F	472
– F	103
Ω – J	271
CITORS	
μ F – M	47 μ F 6V
μ F – K	– – –
F – Z	A5
μ F – Z	– – –
– J	– – –
μ F – Z	N5
F – M	22 μ F 6V
– M	10 μ F 16V
3 μ F – M	33 μ F 10V

PCB-SD(C SIDE)


CTM
CTK
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CUC
CVL
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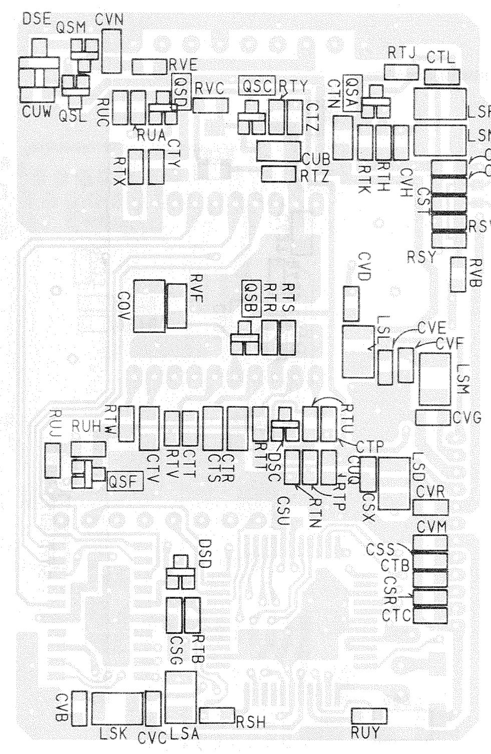
CUR
CTQ
CTU
RTL
CUN
RTM
RUG
CUM
RUD
RST
RSZ
RSS
RTA
CSV
QSE
CUH
RUE
RUF
CUG
CTH
CSM
RSN
RSQ
CSQ
CSP
RVA
RSP
RUX
RSM
CSN
RSB
CSL
CSK
RSA
CVS
CUK
CUL

PCB-SD(S SIDE)


DSE
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RVC
QSC
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CTN
QSA
RTJ
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LSN
CVJ
CTA
RUA
CTY
RTX
CUB
RTZ
CTZ
RTK
RTH
CVH
CST
RSV
RSY
RVB
CVD
COV
RVF
QSB
RTS
RTR
LSL
CVE
CVF
LSM
CVG
RUJ
RUH
RTW
QSF
CTV
RTV
CTT
CTS
CTR
RTT
DSC
CSU
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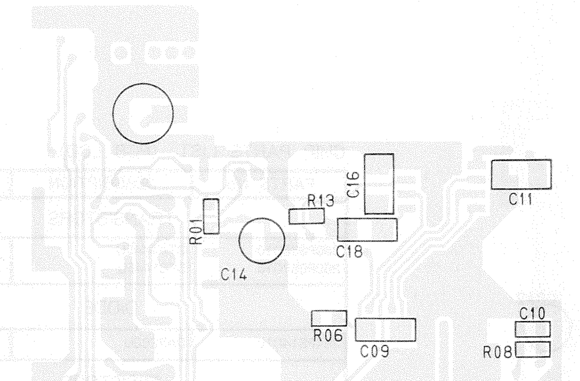
LSD
CVR
CVM
CSS
CTB
CSR
CTC
DSD
RTB
CSG
CVB
LSK
CVC
LSA
RSH
RUY

CHIP PARTS LIST (PCB SD)

PARTS No.	DESCRIPTION	IMPRINTING
TRANSISTORS		
260P867020	2SD1949 – Q	YQ
260P854030	2SC4098 – Q	AQ
260P861020	2SA1577A – Q	HQ,DR
DIODES		
264P814010	DAP202U	P,MO
264P815060	RD5.1MB1	511
COILS		
325C241070	22 μ H – K	220
325C140070	3.3 μ H – K	3R3
325C140030	1.5 μ H – M 322522	1R5
RESISTORS		
103P501030	1/20W 100 Ω – J	101
103P506010	1/20W 1M Ω – J	106
103P502020	1/20W 560 Ω – J	561
103P502050	1/20W 1K Ω – J	102
103P503000	1/20W 2.7K Ω – J	272
103P501080	1/20W 270 Ω – J	271
103P502090	1/20W 2.2K Ω – J	222
103P501070	1/20W 220 Ω – J	221
103P502030	1/20W 680 Ω – J	681
103P503090	1/20W 15K Ω – J	153
103P502010	1/20W 470 Ω – J	471
103P504000	1/20W 18K Ω – J	183
103P500010	1/20W 10 Ω – J	100
103P503030	1/20W 4.7K Ω – J	472
103P504040	1/20W 39K Ω – J	393
103P503020	1/20W 3.9K Ω – J	392
103P503010	1/20W 3.3K Ω – J	332
103P500050	1/20W 22 Ω – J	220
103P504090	1/20W 100K Ω – J	104
103P503070	1/20W 10K Ω – J	103
103P504030	1/20W 33K Ω – J	333
103P502080	1/20W 2.7K Ω – J	272
103P504010	1/20W 22K Ω – J	223
103P503080	1/20W 12K Ω – J	123
103P504020	1/20W 27K Ω – J	273
103P503040	1/20W 5.6K Ω – J	562
103P504050	1/20W 47K Ω – J	473
103P502070	1/20W 1.5K Ω – J	152
103P409050	1/10W0 Ω	00
CAPACITORS		
154P341050	CH50V 15P – J	– – –
141P143080	F50V 0.01 μ F – Z	– – –
181P500030	04W6.3V47 μ F – M	47 μ F 6V
154P341030	CH50V 12P – J	– – –
154P343030	CH50V 82P – J	– – –
154P342050	CH50V 39P – J	– – – – – –
154P341090	CH50V 22P – J	– – –
154P342070	CH50V 47P – J	– – –
141P135080	F25V0.1 μ F – Z	A5
181P502030	16V10 μ F – M	10 μ F 16V
181P502040	04W16V 22 μ F – M	22 μ F 16V
141P143050	F50V 1000P – Z	– – –
181P506010	50V1 μ F – M	1 μ F 50V
181P505000	04W35V 10 μ F – M	10 μ F 35V
181P504090	35V4.7 μ F – M	4.7 μ F 35V
181P505010	35V22 μ F – M	22 μ F 35V
181P500010	6.3V22 μ F – M	22 μ F 6V
181P503090	25V33 μ F – M	33 μ F 25V
141P140090	B50V 1000P – K	– – –

PCB-MIC-AMP(C SIDE)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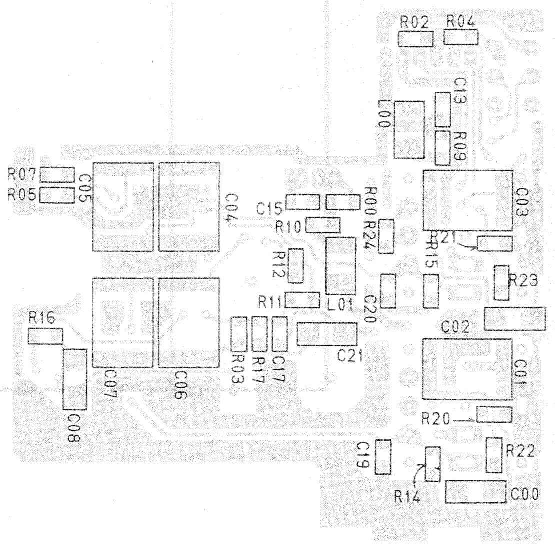
R13
C16
C11
C18
C14
R06
C09
C10
R08

PCB-MIC-AMP(S SIDE)


R02
R04
L00
C13
R09
R07
R05
C05
C04
C15
R10
R00
R24
C03
R12
R21
R15
R23
R16
R11
L01
C20
C02
C07
C06
R03
R17
C17
C21
C01
C08
R20
C19
R22
R14
C00

CHIP PARTS LIST (PCB MIC – AMP)

PARTS No.	DESCRIPTION	IMPRINTING
COIL		
325C242050	100 μ H – K	101K
RESISTORS		
103P502020	1/20W 560 Ω – J	561
103P503080	1/20W 12K Ω – J	123
103P501030	1/20W 100 Ω – J	101
103P504090	1/20W 100K Ω – J	104
103P501080	1/20W 270 Ω – J	271
103P504050	1/20W 47K Ω – J	473
103P504010	1/20W 22K Ω – J	223
103P503010	1/20W 3.3K Ω – J	332
103P504070	1/20W 68K Ω – J	683
103P509050	0 Ω RM1608	00
CAPACITORS		
189P123010	16V1 μ F – M	CA6
181P502060	16V47 μ F – M	47 μ F 16V
141P143080	F50V 0.01 μ F – Z	– – –
181P500030	04W6.3V47 μ F – M	47 μ F 6V
189P120030	4V10 μ F – M	4A7
141P141050	B50V 3300P – K	– – –
189P126010	35V0.1M	VA5
141P140090	B50V 1000P – K	– – –